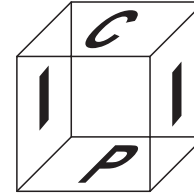


ADVANCE PROGRAM



ICIP 2002

2002
IEEE INTERNATIONAL CONFERENCE
ON
IMAGE PROCESSING

22-25 SEPTEMBER 2002
ROCHESTER RIVERSIDE
CONVENTION CENTER &
HYATT REGENCY
ROCHESTER, NEW YORK



IEEE

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ELECTRONICS ENGINEERS
SIGNAL PROCESSING SOCIETY

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For the most current information on
The International Conference on Image Processing
2002 visit the website:

<http://www.icip2002.com>

PRE-CONFERENCE SCHEDULE

SUNDAY, 22 SEPTEMBER 2002
MORNING TUTORIALS - 9:00 - 12:30
THE EMERGING JVT/H.26L VIDEO CODING STANDARD Thomas Wiegand, Heinrich Hertz Institute Gary Sullivan, Microsoft Research
TECHNOLOGIES AND APPLICATIONS FOR DIGITAL VIDEO INDEXING AND SUMMARIZATION Shih-Fu Chang, Columbia University
IMAGE-BASED RENDERING: CONVERGENCE OF IMAGE, VISION, AND GRAPHICS Tsuhan Chen, Carnegie Mellon University
AFTERNOON TUTORIALS - 13:30 - 17:00
VIDEO OVER IP: INTERNET AND WIRELESS Reha Civanlar, AT&T Research
PRINCIPLES OF DIGITAL COLOR MANAGEMENT Thomas E. Madden, Eastman Kodak Company
MEDICAL IMAGE COMPRESSION: CONCEPTS, STANDARDS AND CLINICAL IMPLICATIONS Mostafa Analoui, Pfizer Global Research and Development Touradj Ebrahimi, Swiss Federal Institute of Technology (EPFL)
<i>Awards Ceremony & Welcome Reception</i> 18:00 - 18:30 - Awards Ceremony 18:30 - 20:30 - Welcome Reception <i>Hyatt Regency Ballroom</i>
MONDAY, 23 SEPTEMBER, 2002
AFTERNOON TUTORIAL - 14:15 - 17:45
PRINCIPLES OF DIGITAL WATERMARKING Ingemar Cox, NEC Research Institute Matthew Miller, NEC Research Institute Jeffrey Bloom, Sarnoff Corporation

TECHNICAL PROGRAM SCHEDULE

MONDAY, 23 SEPTEMBER 2002
MORNING
MORNING SESSIONS 8:30 - 11:30
MA-L1: SPECIAL SESSION Wireless Imaging <i>Highland A</i>
MA-L2: SPECIAL SESSION Image Processing for Biometrics <i>Highland B</i>
MA-L3: LECTURE SESSION Video Compression I <i>Highland C</i>
MA-L4: LECTURE SESSION Segmentation I <i>Highland D</i>
MA-L5: LECTURE SESSION Semantics in Multimedia <i>Highland E</i>
MA-P1: POSTER SESSION Object-based Coding <i>Empire Hall North Area 1</i>
MA-P2: POSTER SESSION Image Compression & Transmission <i>Empire Hall North Area 2</i>
MA-P3: POSTER SESSION Computer Vision I <i>Empire Hall North Area 3</i>
MA-P4: POSTER SESSION Restoration <i>Empire Hall North Area 4</i>
MA-P5: POSTER SESSION Wavelet and Multiresolution Processing <i>Empire Hall North Area 5</i>
MA-P6: POSTER SESSION Image Databases and Retrieval <i>Empire Hall North Area 6</i>
MA-P7: POSTER SESSION Scanning and Printing <i>Empire Hall North Area 7</i>

TECHNICAL PROGRAM SCHEDULE

MONDAY, 23 SEPTEMBER 2002
AFTERNOON
MP-L0: PLENARY SESSION Subspace Methods for Image Analysis Takeo Kanade, Carnegie Mellon University <i>13:00 - 14:00 Hyatt Regency Ballroom</i>
AFTERNOON SESSIONS 14:20 - 17:20
MP-L1: SPECIAL SESSION Multi-Sensor Surveillance Systems <i>Highland A</i>
MP-L2: LECTURE SESSION Wireless Video and Image Transmission <i>Highland B</i>
MP-L3: LECTURE SESSION Motion Detection & Estimation I <i>Highland C</i>
MP-L4: LECTURE SESSION Video Structuring and Indexing <i>Highland D</i>
MP-L5: LECTURE SESSION Capture and Rendering <i>Highland E</i>
MP-P1: POSTER SESSION Motion Compensation <i>Empire Hall North Area 1</i>
MP-P2: POSTER SESSION Video Coding and Transcoding <i>Empire Hall North Area 2</i>
MP-P3: POSTER SESSION Applications of Image Segmentation <i>Empire Hall North Area 3</i>
MP-P4: POSTER SESSION Filtering & Enhancement <i>Empire Hall North Area 4</i>
MP-P5: POSTER SESSION Modeling and Architecture <i>Empire Hall North Area 5</i>
MP-P6: POSTER SESSION Multimedia Description <i>Empire Hall North Area 6</i>
MP-P7: POSTER SESSION Multimedia Retrieval and Applications <i>Empire Hall North Area 7</i>

TECHNICAL PROGRAM SCHEDULE

TUESDAY, 24 SEPTEMBER 2002
MORNING
MORNING SESSIONS 8:30 - 11:30
TA-L1: SPECIAL SESSION Video Technologies for Set-Top Boxes <i>Highland A</i>
TA-L2: LECTURE SESSION Scalable Video Coding <i>Highland B</i>
TA-L3: LECTURE SESSION Segmentation II <i>Highland C</i>
TA-L4: LECTURE SESSION Facial Recognition and Detection <i>Highland D</i>
TA-L5: LECTURE SESSION Watermarking I <i>Highland E</i>
TA-P1: POSTER SESSION Image and Video Transmission Over Networks <i>Empire Hall North Area 1</i>
TA-P2: POSTER SESSION Stereoscopic and 3D Coding <i>Empire Hall North Area 2</i>
TA-P3: POSTER SESSION Motion Detection & Estimation II <i>Empire Hall North Area 3</i>
TA-P4: POSTER SESSION Image Processing <i>Empire Hall North Area 4</i>
TA-P5: POSTER SESSION Color and Multispectral Processing <i>Empire Hall North Area 5</i>
TA-P6: POSTER SESSION Video Segmentation and Indexing <i>Empire Hall North Area 6</i>
TA-P7: POSTER SESSION Reconstruction Techniques and Analysis <i>Empire Hall North Area 7</i>

TECHNICAL PROGRAM SCHEDULE

TUESDAY, 24 SEPTEMBER 2002
AFTERNOON
TP-L0: PLENARY SESSION Advances in Video Compression and the Emerging JVT/H.26L/AVC Standard Gary J. Sullivan, Microsoft Research <i>13:00 - 14:00 - Hyatt Regency Ballroom</i>
AFTERNOON SESSIONS 14:20 - 17:20
TP-L1: SPECIAL SESSION The Emerging JVT/H.26L Video Coding Standard <i>Highland A</i>
TP-L2: LECTURE SESSION Stereoscopic & 3-D Processing I <i>Highland B</i>
TP-L3: LECTURE SESSION Computer Vision II <i>Highland C</i>
TP-L4: LECTURE SESSION Image Retrieval <i>Highland D</i>
TP-L5: LECTURE SESSION Tomographic Imaging <i>Highland E</i>
TP-P1: POSTER SESSION Image Compression I <i>Empire Hall North Area 1</i>
TP-P2: POSTER SESSION Error Concealment and Protection <i>Empire Hall North Area 2</i>
TP-P3: POSTER SESSION Segmentation III <i>Empire Hall North Area 3</i>
TP-P4: POSTER SESSION Analysis II <i>Empire Hall North Area 4</i>
TP-P5: POSTER SESSION Enhancement & Restoration <i>Empire Hall North Area 5</i>
TP-P6: POSTER SESSION Watermarking II <i>Empire Hall North Area 6</i>
TP-P7: POSTER SESSION Applications I <i>Empire Hall North Area 7</i>
Banquet 18:30 <i>Convention Center Ballroom</i>

TECHNICAL PROGRAM SCHEDULE

WEDNESDAY, 25 SEPTEMBER 2002
MORNING
<p>WA-L0: PLENARY SESSION Adaptive Optics for the Human Eye David R. Williams, University of Rochester 8:00 - 9:00 - <i>Hyatt Regency Ballroom</i></p>
MORNING SESSIONS 9:20 - 12:20
<p>WA-L1: SPECIAL SESSION MPEG-4 Animation Framework Extension (Part I) <i>Highland A</i></p>
<p>WA-L2: SPECIAL SESSION Objective Video Quality Metrics <i>Highland B</i></p>
<p>WA-L3: LECTURE SESSION Image Compression II <i>Highland C</i></p>
<p>WA-L4: LECTURE SESSION Analysis I <i>Highland D</i></p>
<p>WA-L5: LECTURE SESSION Medical Imaging <i>Highland E</i></p>
<p>WA-P1: POSTER SESSION Streaming Video <i>Empire Hall North Area 1</i></p>
<p>WA-P2: POSTER SESSION Wavelet Compression <i>Empire Hall North Area 2</i></p>
<p>WA-P3: POSTER SESSION Segmentation IV <i>Empire Hall North Area 3</i></p>
<p>WA-P4: POSTER SESSION Computer Vision III <i>Empire Hall North Area 4</i></p>
<p>WA-P5: POSTER SESSION Interpolation and Spatial Transformations <i>Empire Hall North Area 5</i></p>
<p>WA-P6: POSTER SESSION Image Sequence Processing II <i>Empire Hall North Area 6</i></p>
<p>WA-P7: POSTER SESSION Watermarking IV <i>Empire Hall North Area 7</i></p>

TECHNICAL PROGRAM SCHEDULE

WEDNESDAY, 25 SEPTEMBER 2002
AFTERNOON
AFTERNOON SESSIONS 14:00 - 17:00
<p>WP-L1: SPECIAL SESSION MPEG-4 Animation Framework Extension (Part II) Virtual Habitats <i>Highland A</i></p>
<p>WP-L2: SPECIAL SESSION Error Resilient Coding <i>Highland B</i></p>
<p>WP-L3: LECTURE SESSION Wavelet and Multiresolution Processing <i>Highland C</i></p>
<p>WP-L4: LECTURE SESSION Image Sequence Processing I <i>Highland D</i></p>
<p>WP-L5: LECTURE SESSION Watermarking III <i>Highland E</i></p>
<p>WP-P1: POSTER SESSION Video Compression <i>Empire Hall North Area 1</i></p>
<p>WP-P2: POSTER SESSION Scalable Image and Video Coding <i>Empire Hall North Area 2</i></p>
<p>WP-P3: POSTER SESSION Segmentation V <i>Empire Hall North Area 3</i></p>
<p>WP-P4: POSTER SESSION Stereoscopic & 3-D Processing II <i>Empire Hall North Area 4</i></p>
<p>WP-P5: POSTER SESSION Computer Vision IV <i>Empire Hall North Area 5</i></p>
<p>WP-P6: POSTER SESSION Image Indexing and Retrieval <i>Empire Hall North Area 6</i></p>
<p>WP-P7: POSTER SESSION Applications II <i>Empire Hall North Area 7</i></p>

CHAIRMAN'S INVITATION

The ICIP 2002 Chairman and Organizing Committee takes great pleasure in extending this invitation to you to attend IEEE / ICIP 2002 in Rochester, New York, USA. With its ninth meeting, ICIP has already been established as the premier international conference in the field of image and video processing research and applications. Once again, ICIP 2002 will bring together researchers and practitioners to present their latest achievements and explore future directions in image and video processing.

Conference activities will take place in the Riverside Convention Center located on the banks of the Genesee River in downtown Rochester and the Hyatt Regency Hotel connected to the Convention Center. With the presence of major imaging and optics companies such as Eastman Kodak, Xerox, Corning, and Bausch and Lomb, Rochester came to be known as the imaging center of the world. The city is located on the shore of Lake Ontario and offers unique sightseeing opportunities. Among the most visited attractions in the downtown area are the George Eastman House and International Museum of Photography and Film (home of Mr. George Eastman, the founder of Kodak), the Eastman Theatre, and the University of Rochester Memorial Art Gallery. The Finger Lakes region (Wine Country), Letchworth State Park, and Niagara Falls are all within a short one-hour car ride, and Thousand Islands and Adirondack Park (to watch fall colors) take about 3 hours to reach by car.

Of course, the main reason that brings you to Rochester, NY is the exciting and stimulating technical program that we put together. We have outstanding Plenary Speakers, who will discuss the latest developments in JVT video coding, image analysis and computer vision, and visual sciences. I would like to thank Majid Rabbani and Raghuvver Rao who lined up leading experts to present state-of-the-art tutorials and an excellent array of special sessions in emerging technology areas, respectively. Most of the work in putting together the regular sessions rests on the shoulders of the technical program Co-chairs. I would like to thank Amy Reibman and Keith Knox for their dedication and excellent work that resulted in the Technical Program, which I am sure you will enjoy very much. The **latest technical program** information can be found at <http://icip2002.com>. Since we received several questions on this, I should also add that ICIP papers are indexed in both EI Compendex and Engineering Index Monthly.

In addition, we have several exciting **Social Events**, including the **Welcome Reception and Awards Ceremony** (Sunday evening at 6:00 pm featuring **The Eastman Jazz Trio**, with Rich Thompson, Harold Danko, and Jeff Campbell from the University of Rochester Eastman School of Music <www.rochester.edu/Eastman/jazz/jazz_faculty.htm> at the Hyatt Regency Grand Ballroom) and the **Banquet** (Tuesday evening at 6:30 pm featuring **the Gap Mangione Big Band** <www.gapmangione.com> at the Riverside Convention Center). The banquet will be all entertainment and no business. Please come join us for an evening with Gap Mangione. Tours of local attractions will also be available.

I would like to thank members of my committee, who all contributed significantly to this effort. It was also a pleasure to work with Billene Mercer and her team who helped us in every possible way to make our lives easier. Finally, I would like to thank both the University of Rochester (USA) and Koc University (Istanbul, Turkey), who allowed me time to work on ICIP 2002.

The members of the Organizing Committee are all working hard to make every aspect of ICIP 2002 a memorable experience. We look forward to welcoming you to Rochester, NY personally in September.

A. Murat Tekalp
General Chair

TECHNICAL PROGRAM OVERVIEW

It is our pleasure to welcome you to the 2002 IEEE International Conference on Image Processing in Rochester, New York!

The ICIP 2002 technical program is built on the ICIP tradition and its reputation as the world's premier technical conference in the field of image and video processing. This year we had 1281 regular paper submissions from over 40 different countries. ICIP has been and continues to be a truly international conference! The Technical Program Committee consists of over 250 experts, listed in the following pages, who generously volunteered their time and effort to ensure the excellence of the technical program. It includes members of the Image and Multidimensional Signal Processing Technical Committee of the IEEE Signal Processing Society, as well as numerous other experts in the field of image and video processing. Based on the reviews provided by the Technical Program Committee, the Technical Program Chairs selected 747 papers that were organized in 22 oral sessions and 42 poster sessions. We worked hard to make sure that every paper received at least two independent reviews. The paper submission and review process were each handled electronically. Following ICIP tradition, the allocation of the papers into oral and poster sessions was based on topic, not on quality. Our objective was to keep the technical content of the sessions as focused as possible. The ICIP 2002 technical program also includes 64 papers in eight special sessions for a total of 811 papers. Time and space limitations did not allow us to include many more fine technical submissions, and on behalf of the Organizing Committee, we express our regrets to those authors whose submissions could not be included. Overall, the process resulted in an excellent technical program that covers a wide range of topics. We wish to thank the Technical Program Committee, the Organizing Committee, and all the researchers who contributed paper proposals. We also want to thank Eli Saber, Raghuvver Rao, Gaurav Sharma, Ricardo de Queiroz, Bob Gray, Andreas Savakis, Jiebo Luo, James Ziobro, Mehmet Celik, Shiloh Dockstader, Ahmet Ekin, and Sanjay Patel, who provided invaluable help in putting together the technical program.

The conference begins on Sunday, September 22, with **six tutorials** organized by the Tutorials Chair, Majid Rabbani. Attendees can get overviews of the state of the art in several key areas of image and video processing: **Video over IP: Internet and Wireless**, Reha Civanlar; **The Emerging JVT/H.26L Video Coding Standard**,

Thomas Wiegand and Gary Sullivan; **Technologies and Applications for Digital Video Indexing and Summarization**, Shih-Fu Chang; **Medical Image Compression: Concepts, Standards and Clinical Implications**, Mostafa Analoui and Touradj Ebrahimi; **Principles of Digital Color Management**, Thomas E. Madden; **Image-Based Rendering: Convergence of Image, Vision, and Graphics**, Tsuhan Chen. In addition, this year, one tutorial is being held in parallel with the regular sessions on Monday afternoon: **Principles of Digital Watermarking**, Ingemar Cox, Matthew Miller, and Jeffrey Bloom.

We have three outstanding **plenary talks** scheduled. Monday afternoon, **Takeo Kanade**, Carnegie Mellon University, will present a talk entitled "Subspace Methods for Image Analysis." Tuesday afternoon, **Gary J. Sullivan**, Microsoft Research, will present a talk on "Advances in Video Compression and the Emerging JVT/H.26L/AVC standard", and on Wednesday morning, **Dave Williams**, University of Rochester, will present a talk entitled "Adaptive Optics for the Human Eye."

A highlight of the conference are the eight **special sessions** that were selected by the Special Sessions Chair, Raghuvveer Rao, to address important accomplishments and future perspectives in emerging and active areas of research, and to expand on the main themes of the conference. They are: **Wireless Imaging**, Chang Wen Chen and Jiebo Luo; **Image Processing for Biometrics**, Tsuhan Chen; **Multisensor Surveillance Systems**, Pramod Varshney and Carlo Regazzoni; **Video Technologies for Digital Set-Top Boxes**, Cesar Gonzalez and Krishna Ratakonda; **The Emerging JVT/H.26L Video Coding Standard**, Thomas Wiegand and Gary Sullivan; **MPEG-4 Animation Framework Extension**, Mikael Bourges-Sevenier; **Objective Video Quality Metrics**, J. Caviedes, John Pearson and Sanjit Mitra; and **Virtual Habitats**, Franz Leberl.

The main part of the conference, of course, consists of the regular lecture and poster sessions, which will present the latest results in the theory and applications of image processing. We are confident that the attendees will find a great deal of interesting and stimulating material in the technical program to keep them challenged and engaged over the three days of the technical program and beyond.

We would like to express our deep appreciation to the Plenary Speakers, Tutorial Presenters, and Special Sessions Organizers and Chairs for their invaluable contribution to ICIP 2002. Clearly, organizing a conference the size of ICIP could not have been done without a lot of volunteer help. The members of the Organizing Committee put a lot of time and effort into the process, making joint decisions and monitoring the process along the way. Finally, we wish to acknowledge the able and tireless contributions of Billene Mercer and her staff at CMS for organizing the conference, including all aspects of assembling the technical program and producing the publications of the conference.

We hope that you will enjoy the conference and find the technical program exciting. We also hope that you will find some time to explore Rochester and all it has to offer.

Amy Reibman and Keith Knox
ICIP 2002 Technical Program Co-Chairs

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Reginald Lagendijk, Delft University of Technology, The Netherlands
Andreas Lanitis, Cyprus College, Cyprus
Longin Jan Latecki, Temple University, United States
Roger Lecomte, Université de Sherbrooke, Canada
Xin Li, Sharp Labs of America, United States
Jia Li, Penn State University, United States
Laurence Likforman, Ecole Nationale Supérieure des
Telecommunications, France
Bede Liu, Princeton University, United States
Alexander Loui, Eastman Kodak Company, United States
Jiebo Luo, Eastman Kodak Company, United States
William E. Lynch, Concordia University, Canada
Kai-Kuang Ma, Nanyang Technological University, Singapore
Henri Maitre, Ecole Nationale Supérieure des Telecommunications,
France
B. Manjunath, UCSB, United States
Abdol-Reza Mansouri, INRS Telecommunications, Canada
Michael Marcellin, University of Arizona, United States
Ferran Marques, UPC, Spain
Jiri Matas, CTU Prague, Czech Republic
Jose M. Menendez, Universidad Politecnica de Madrid, Spain
Matthew Miller, NEC Research Institute, United States
Eric Miller, Northeastern University, United States
Fred Mintzer, IBM T.J. Watson Research Center, United States
Amar Mitiche, INRS-Telecommunications, Canada

Sanjit Mitra, University of California, United States
Rafael Molina, Universidad de Granada, Granada
Pierre Moulin, University of Illinois, Urbana-Champaign, United States
David Munson, University of Illinois, Urbana-Champaign, United States
Nader Namazi, The Catholic University, United States
Rafael Navarro, Instituto de Optica (CSIC), Spain
Oscar Nestares, Instituto de Optica "Daza de Valdes", Spain
David Neuhoﬀ, University of Michigan, United States
Truong Nguyen, University of California, San Diego, United States
Henri Nicolas, IRISA/INRIA, France
Nikos Nikolaidis, Aristotle University of Thessaloniki, Greece
Takao Nishitani, NEC Corporation, Japan
Aria Nosratinia, University of Texas, Dallas, United States
Robert Nowak, Rice University, United States
Jens-Rainer Ohm, RWTH Aachen, Germany
Antonio Ortega, University of Southern California, United States
Joern Ostermann, AT&T
Thrasyloulos Pappas, Northwestern University, United States
Rae-Hong Park, Sogang University, Republic of Korea
Ioannis Pavlidis, Honeywell Laboratories, United States
William A. Pearlman, Rensselaer Polytechnic Institute, United States
Fernando Pereira, Instituto Superior Técnico, Portugal
Beatrice Pesquet-Popescu, TSI - ENST, France
Fabien A. P. Petitcolas, Microsoft Research, United Kingdom
Dan Phillips, Rochester Institute of Technology, United States
Konstantinos Plataniotis, University of Toronto, Canada
Christine Podilchuk, Bell Labs, Lucent Technologies, United States
Kris Papat, Xerox PARC, United States
Josep Prades, Universidad Politecnica de Valencia, Spain
Majid Rabbani, Eastman Kodak, United States
Hayder Radha, Michigan State University, United States
Rajesh Rajagopalan, Emuzed Inc., United States
Sarah Rajala, North Carolina State University, United States
Kannan Ramchandran, University of California, Berkeley, United States
Gianni Ramponi, University of Trieste, Italy
K.R. Rao, University of Texas, Arlington, United States
Andrei Rares, Delft University of Technology, ITS Faculty, ICT Group, The Netherlands
Stanley Reeves, Auburn University, United States
Carlo Regazzoni, University of Genova, Italy
Alfredo Restrepo, Universidad de los Andes, Colombia
Eve Riskin, University of Washington, United States
John A. Robinson, University of York, United Kingdom
Jeffrey J. Rodriguez, University of Arizona, United States
Michel Roux, ENST, France
Virginie F. Ruiz, University of Reading, United Kingdom
Eli Saber, Xerox, United States
Robert Safranek, Benevue, Inc, United States
Paul Salama, Indiana University - Purdue University, Indianapolis, United States
Philippe Salembier, UPC, Spain
Stephen Sangwine, University of Essex, United Kingdom
Bulent Sankur, Bogazici University, Turkey
Prateek Sarkar, PARC, United States
Dietmar Saupe, University Leipzig, Germany
Andreas Savakis, Rochester Institute of Technology, United States
Dan Schonfeld, University of Illinois, United States
Sergio Servetto, Cornell University, United States

Iwan Setyawan, Delft Technical University, The Netherlands
Ibrahim Sezan, Sharp Labs of America, United States
Gaurav Sharma, Xerox Corporation, United States
Ke Shen, Cisco Systems, United States
Giovanni Sicuranza, University of Trieste, Italy
Dimitris Simitopoulos, Informatics and Telematics Institute, Greece
Amit Singhal, Eastman Kodak Company
Athanasios Skodras, University of Patras, Greece
Bogdan Smolka, Silesian University of Technology, Poland
Gerald Sommer, Christian-Albrechts-Universitaet zu Kiel, Germany
Minas Spetsakis, York University, Canada
Tania Stathaki, Imperial College of Science Technology and Medicine, United Kingdom
Robert Stevenson, University of Notre Dame, United States
Thomas Stockhammer, Munich University of Technology, Germany
Peter Sturm, INRIA, France
Zhaohui Sun, Eastman Kodak Company, United States
Tamas Sziranyi, Comp.Aut.Res.Ins., MTA SzTAKI, Hungary
Anastasios Tefas, Aristotle University of Thessaloniki, Greece
Philippe Thévenaz, Swiss Federal Institute of Technology Lausanne, Switzerland
Candemir Toklu, Siemens Corporate Research, Inc, United States
Luis Torres, Technical University of Catalonia, Spain
George Triantafyllidis, Aristotle University, Greece
Dimitris Tsakiris, ICS-FORTH
Sofia Tsekeridou, INTRACOM S.A., Greece
George A. Tsihrintzis, University of Piraeus, Greece
Stefano Tubaro, Politecnico di Milano, Italy
Damon Tull, DVIP Multimedia Incorporated, United States
Georgios Tziritas, University of Crete, Greece
Robert Ulichney, Compaq Computer Corp., United States
Gozde Bozkurt Unal, North Carolina State University, United States
Stephane Valente, Philips Research France, France
Peter van Beek, Sharp Laboratories of America, United States
Michael Vannier, University of Iowa, United States
Nuno Vasconcelos, Compaq Cambridge Research Laboratory, United States
Gianni Vernazza, University of Genova, Italy
Olivier Verscheure, IBM T.J. Watson Research Center, United States
M.J. Vrhel, Color Savvy Systems Limited
Yao Wang, Polytechnic University, United States
Susie Wee, HP Labs, United States
Peter Westerink, IBM T.J. Watson Research Center, United States
Thomas Wiegand, Heinrich Hertz Institute, Germany
Richard Wilson, University of York, United Kingdom, United Kingdom
Brendt Wohlberg, Los Alamos National Laboratory, United States
Wootack Woo, KJIST, South Korea
John Woods, Rensselaer Polytech, United States
Zixiang Xiong, Texas A&M University, United States
Seungjoon Yang, Samsung Electronics Co. LTD., South Korea
Jong Chul Ye, Philips Research United States, United States
Josh Zeevi, Columbia University, United States
Josiane Zerubia, INRIA, France
Michalis Zervakis, Technical University of Crete, Greece
Jun Zhang, University of Wisconsin, Milwaukee, United States
WenWu Zhu, Microsoft Research Asia, China
James Ziobro, Xerox, United States

WELCOME TO ROCHESTER, NEW YORK!

Rochester is the third largest city in New York and owes its existence to the flour mills that were built on the Genesee River's High Falls. It became a "boom town" after the construction of the Erie Canal that was lined with barges of flour, lumber, and other goods. Rochester became known as the "Flour City" and then the "Flower City" because of the many flower nurseries. Rochester has the world's largest collection of lilacs, and each May, the city celebrates its flower heritage.

Not only will you find several excellent museums, including the George Eastman House and International Museum of Photography and Film, you will also find the University of Rochester (U of R) Eastman School of Music and U of R Memorial Art Gallery.

Today, Rochester is the "World's Image Center" because of the University of Rochester's School of Engineering and Institute of Optics, the Rochester Institute of Technology's College of Imaging Arts and Sciences, Bausch & Lomb, Xerox, Eastman Kodak, and the many other imaging and optics firms in the area. This is a perfect place to hold the world's premier image processing conference — ICIP 2002!

AIR TRAVEL

The Greater Rochester International Airport at (585) 464-6000 is on Brooks Avenue at I-390 exit 18. Most major carriers serve Rochester.

Transportation

Taxis: Destinations in downtown Rochester, where the Conference Facility and hotels are located, will cost less than \$15 using Airport Taxi.

Trains: The Amtrak train station is located at 320 Central Avenue, and their phone number is (585) 454-2894. Trains run east through Syracuse to New York City and west to Buffalo. Excursion discounts are often available.

Shuttle: There is a city (RTS) bus that operates between the airport and downtown. You can check the bus schedule at the airport. Their number is (585) 288-1700.

Car: Rochester has an excellent expressway system. A car allows for the easiest access to the entire region.

Bus: The bus terminal is at 187 Midtown Plaza on the corner of Broad and Chestnut Streets. The phone number is (800) 295-5555. Trailways buses go to Buffalo, Syracuse, Niagara Falls, Albany and New York City. Greyhound also offers similar trips.

LOCAL INFORMATION

The Greater Rochester Visitors' Association can be reached at: (585) 546-3070, 1-800-677-7282 and is located at 45 East Avenue. They also have a 24-hour events line at (585) 546-6810. The website <<http://www.visitrochester.com>> provides a wealth of information.

Regional Transit Service buses will take you anywhere in town. Their number is (585) 288-1700. The fare is about \$1.25.

FAVORITE THINGS TO SEE

The **Rochester Philharmonic Orchestra** - plays in the University of Rochester Eastman School of Music's Eastman Theatre, 26 Gibbs Street. Their number is (585) 454-2620.

The **Center at High Falls** - The center overlooks the 96-foot High Falls, and is located at 60 Brown's Race. The phone is (585) 325-2030; website <<http://www.highfallsheritagearea.org>>. In 1829 the famous Sam Patch (he had jumped Niagara Falls twice) and his pet bear tried to jump the falls. The bear made the jump.

George Eastman House & International Museum of Photography & Film - This 50-room mansion is a 1905 Colonial-Revival mansion that Kodak built at 900 East Avenue, which sits on a 12.5 acre estate. The museum boasts one of the world's largest collection of historic films, photographs, cameras, and photography books. Their number is (585) 271-3361; <<http://www.eastman.org>>

Memorial Art Gallery - 500 University Avenue, (585) 473-7720, was the collection of Old Masters owned by George Eastman. The art here covers more than 50 centuries.

Strong Museum - located at 1 Manhattan Square at the corner of Monroe Avenue and Woodbury. Their number is (585) 263-2700. Margaret Woodbury Strong was the largest single Kodak stockholder when she died in 1969. Her estate of \$77 million was used to create this museum. This facility is a hands-on history center for children and has a large collection of middle-class Americana. Included is an exhibit on the history of Jell-O and American Sign language. The Strong Museum is very popular with children.

The Rochester Museum & Science Center and The Strasenburgh Planetarium - 657 East Avenue (585) 271-4320, contains an extensive collection of art from the Seneca Iroquois Arts Project. The museum focuses on the heritage of the region.

Mt. Hope Cemetery at the corner of Mr. Hope and Elmwood Avenues south of downtown is 196 acres. This cemetery dates from 1838 and is the final resting place of such people as Frederick Douglass and Susan B. Anthony. The Friends of Mr. Hope Cemetery provide free one to two hour tours of the grounds. Their phone number is (585) 461-3494.

The Susan B. Anthony House - 17 Madison Street (585) 235-6124 was the home of this famous lady from 1866 to 1906. She helped write the *History of Woman Suffrage* and was arrested in her home in 1872 after she tried to vote.

Six Flags Darien Lake - New York's largest combination theme park. Six Flags Darien Lake is halfway between Rochester and Buffalo. Their number is (585) 599-4641 or you can try <<http://www.sixflags.com/darienlake>>.

Letchworth State Park - a 14,350-acre state park is a one-hour drive southwest of Rochester. It has been called the Grand Canyon of the East. It offers spectacular views, trails through forests, three waterfalls (one 107 feet high), canoeing and white-water rafting. There are nearly every species of North American tree grown here. For more information visit the website at <http://www.nysparks.com>.

Charlotte-Genesee Lighthouse - 8 miles north of Rochester at 70 Lighthouse street. The lighthouse is at the mouth of the Genesee River and although it is not a working lighthouse, as a visitor you have access to the tower. Free admission.

Victorian Doll Museum and Chili Doll Hospital - 20 minutes west of Rochester. Their number is (585) 247-0130.

Genesee Country Village and Museum - 1410 Flint Hill Road in Mumfords. This living-history collection of 57 buildings of the 19th century is 20 miles west of Rochester. The staff dresses in period costumes. There is a hiking trail and nature center. For more information call (585) 538-6822.

Pittsford Village - a 15-minute drive south of Rochester on Route 31 or Monroe Avenue. This is a good place to walk and bike along the Erie Canal or take a cruise aboard one of the canal boats, like the Sam Patch (585) 262-5661.

Niagara Falls - September is a great time to enjoy the warm weather with fewer crowds. Be sure and ride on *the Maid of the Mist* for an exciting experience.

FAVORITE PLACES TO EAT

Rochester offers a wide selection of restaurants for all tastes. Some favorites are:

Aladdin's (inexpensive)

Brasserie Restaurant

City Grill of Rochester

Edwards Restaurant

Esan

Highland Park Diner (inexpensive)

Jillians (at High Falls, walking distance)

Jine's Restaurant (inexpensive)

King and I (inexpensive)

Mario's Via Abruzzi

Olive Tree

Ozzie's NY Deli & Bar

Richardson's Canal House

Sabrina's

Simbad's (inexpensive)

Spring House

Water Street Grill

VISA REQUIREMENTS

Complete visa information and the OF-156 application form are available on-line at <<http://travel.state.gov/visa/visitors.html>>. For further information on obtaining a visa, you may contact any U.S. Consulate Office, or you may check the U.S. Department of State, Bureau of Consular Affairs web site at: <<http://travel.state.gov>>. For links to the official web sites of U.S. posts worldwide, please visit <<http://travel.state.gov/links.html>>.

A citizen of a foreign country who wishes to enter the United States must usually obtain a visa. The "visitor" visa is a nonimmigrant visa for persons desiring to enter the United States temporarily for business (B-1) or for pleasure (B-2). A consular officer can provide additional information. Travelers from some countries may be able to visit the U.S. without a visa. The Visa Waiver Program (VWP) enables citizens of participating countries to travel to the U.S. for tourism or business for 90 days or less without obtaining a U.S. visa. For more information and to see if your country is a participant in this program, please visit <<http://travel.state.gov/vwp.html>>.

International attendees requiring a visa to visit the United States should contact the U.S. Embassy or Consulate nearest them. The visa application process should be initiated well in advance of the estimated departure date.

For visas, most applicants must have a passport, valid for six months beyond the duration of the proposed visit, and one passport size photograph. It is helpful for an applicant to have a letter of invitation from the conference. If you need a personal letter of invitation to attend ICIP 2002, please contact Stephanie Cantu, Conference Management Services, <scantu@cmsworldwide.com>. You should provide her with your complete mailing address, email address, and fax number. The letter of invitation with an original signature will be sent to you immediately.

HOTEL RESERVATIONS AND LOCATION

Hyatt Regency Rochester

125 East Main Street
Rochester, NY 14604 USA
Phone: (585) 546-1234
Fax: (585) 546-6160

Four Points - Sheraton

120 East Main Street
Rochester, NY 14604
Phone: (585) 546-6400
Fax: (585) 546-1341

Crowne Plaza - Rochester

Seventy State Street
Rochester, NY 14614
Phone: (585) 546-3450
Fax: (585) 546-8714

EXHIBITS

We are very fortunate to have an excellent group of exhibitors this year. The Exhibit Area is located in the Empire North Hall of the Rochester Riverside Convention Center where you will also find our poster sessions.

Exhibit Hours

Monday, 23 September 2002	8:30 – 17:30
Tuesday, 24 September 2002	8:30 – 17:30
Wednesday, 25 September 2002	9:00 – 17:00

Exhibitors

John Wiley & Sons, Ltd.
Prentice Hall
New York State Office of Science, Technology and Academic Research
Springer-Verlag New York, Inc.
SIAM—Society for Industrial and Applied Mathematics
CRC Press
Elsevier Science
Eastman Kodak Company
Kluwer Academic Publishers
ICIP 2003

We would like to thank Kodak for their generous support of ICIP 2002.

For more information regarding exhibits, please contact Wendi Heinzelman, Exhibits Chair at <wheinzel@ece.rochester.edu> or Christopher Garza, Conference Management Services, at (979) 693-6000 or email: <cgarza@cmsworldwide.com>.

TUTORIALS

SUNDAY, September 22 Morning (9:00 - 12:30)

The Emerging JVT/H.26L Video Coding Standard
Thomas Wiegand and Gary Sullivan
Hyatt Regency - Grand Ballroom B/C

Technologies and Applications for Digital Video Indexing and Summarization

Shih-Fu Chang
Hyatt Regency - Regency Ballroom A

Image-Based Rendering: Convergence of Image, Vision, and Graphics

Tsuhuan Chen
Hyatt Regency - Regency Ballroom B/C

SUNDAY, September 22 Afternoon (13:30 - 17:00)

Video over IP: Internet and Wireless

Reha Civanlar
Hyatt Regency - Grand Ballroom B/C

Principles of Digital Color Management

Thomas E. Madden
Hyatt Regency - Regency Ballroom A

Medical Image Compression: Concepts, Standards and Clinical Implications

Mostafa Analoui and Touradj Ebrahimi
Hyatt Regency - Regency Ballroom B/C

MONDAY, September 23 Afternoon (14:15 - 17:45)

Principles of Digital Watermarking

Ingemar Cox, Matthew Miller, and Jeffrey Bloom
Hyatt Regency - Regency Ballroom A

OPENING AND AWARDS CEREMONY

SUNDAY 18:00, Hyatt

Opening remarks will be made by Prof. A. Murat Tekalp, the ICIP 2002 Chairman. Dr. Rama Chellappa, Vice President-Awards and Membership, will be presenting the SP Society Award and two Fellow plaques. The Award Ceremony will begin at 18:00 in the Grand Ballroom of the Hyatt Regency. Please join us for a glass of wine to congratulate the winners of these prestigious awards. Immediately following will be the Welcome Reception at 18:30 to be held in the Grand Ballroom of the Hyatt Regency.

The IEEE, the IEEE Signal Processing Society, and ICIP 2002 congratulates the following SPS members who have been selected to receive the Society's prestigious awards:

Aleksandra Mojsilovic is receiving the Young Author Best Paper Award for the paper co-authored with Jelena Kovacevic, Jianying Hu, Robert J. Safranek and S. Kicha Ganapathy, entitled "Matching and Retrieval Based on the Vocabulary and Grammar of Color Patterns," published in the IEEE Transactions on Image Processing, Volume 9, Number 1, January 2000.

Fellow Awards are to be presented to:
Jelena Kovacevic, “for contributions to the theory of signal representation” and **Avideh Zakhor**, “for contributions to image and video compression”

PLENARY LECTURES

Monday, 23 September 2002 — 13:00 - 14:00

The Grand Ballroom of the Hyatt Regency

Subspace Methods for Image Analysis

Takeo Kanade, Carnegie Mellon University

In 1990, Tomasi and Kanade developed a new solution method, named a factorization method, for the structure-from-motion problem. The factorization method is based on a simple observation that when the trajectories of features in a sequence of video are organized as a matrix where the entries are the feature’s image coordinates with the row corresponding to the frame and the column to the feature number, the rank of the matrix is surprisingly only up to 3. This linear algebraic property strongly constrains the solution space, and thus allows for a stable simultaneous recovery of motion and shape. Since then, many researchers found similar subspace constraints and exploited them in solving not only structure from motion problems but other vision problems. They include multi-body motion segmentation, optical flow analysis, non-rigid shape recovery, motion layer extraction, color analysis, and even force sensor calibration. I will review some of these problems, and discuss the common threads that have brought about the power of their solution methods.

Takeo Kanade - received his Doctoral degree in Electrical Engineering from Kyoto University, Japan, in 1974. After holding a faculty position at the Department of Information Science, Kyoto University, he joined Carnegie Mellon University in 1980. At Carnegie Mellon he was Director of the Robotics Institute from 1992 to 2001, and is currently U. A. Helen Whitaker University Professor of Computer Science and Robotics. Dr. Kanade has performed research in multiple areas of robotics: vision, multi-media, manipulators, autonomous mobile robots, and sensors. He has written more than 250 technical papers and 15 patents.

Dr. Kanade has been elected to the National Academy of Engineering, a Fellow of the IEEE, a Fellow of ACM, and a Founding Fellow of the American Association of Artificial Intelligence. He has received several awards, including the C&C Award, the Joseph Engelberger Award, Allen Newell Research Excellence Award, JARA Award, and a few best paper awards at international conferences and journals. Dr. Kanade has served for many government, industry, and university advisory boards, including Aeronautics and Space Engineering Board (ASEB) of National Research Council, NASA’s Advanced Technology Advisory Committee, PITAC Panel for Transforming Healthcare Panel, and Advisory Board of Canadian Institute for Advanced Research.

Tuesday, 24 September 2002 — 13:00 - 14:00

The Grand Ballroom of the Hyatt Regency

Advances in Video Compression and the Emerging JVT/H.26L/AVC Standard

Gary J. Sullivan, Microsoft Research

Significant improvements have recently been demonstrated in video compression capability. These advances have been brought about by improvements in algorithmic compression techniques along with a relaxation of the bounds on practical computing power. These advances have converged in the standardization project of the Joint Video Team (JVT) formed by the joined forces of the ITU-T VCEG and ISO/IEC MPEG organizations. This project, following up on advances demonstrated by the ITU-T H.26L project, will soon result in a new international standard for video coding that has the capability of approximately doubling coding efficiency relative to the previous generation of video coding standards established just a few years ago. The new standard will achieve this performance edge across a very wide variety of applications ranging from low bit-rate, low-resolution video to standard-definition DVD/TV applications and beyond. The plenary talk will trace the progress of video compression techniques through time as embodied in international standards. It will describe some of the reasoning behind the design of modern video coding techniques, and will describe the status of standardization and deployment of the emerging JVT/H.26L/AVC video coding standard.

Gary J. Sullivan - received his Ph.D. and Engineer degrees in Electrical Engineering from the University of California, Los Angeles, in 1991. He has been the Rapporteur of Advanced Video Coding in the ITU-T and the leader of its Video Coding Experts Group (VCEG) (ITU-T SG16 Q.6) for about six years. He was then appointed in March of 2001 as the chairman of the video work in the Moving Picture Experts Group (MPEG) (ISO/IEC JTC1/SC29/WG11). Bringing the efforts of these two organizations together, he was most recently appointed in December of 2001 as the chairman of the Joint Video Team (JVT) between VCEG and MPEG for the finalization of the new JVT/H.26L video coding standard, which is targeted for final approval around the end of 2002. He is also the editor of ITU-T Recommendation H.263, and he was the chief editor and chairman for the recent H.263+ and H.263++ projects for enhancement of that standard.

At Microsoft Corporation, he is a program manager for video technologies and standards in the Windows eHome Platforms group. He has been the lead designer of the DirectX® Video Acceleration API/DDI feature of the Microsoft Windows® operating system platform. Prior to joining Microsoft in 1999, he was the Manager of Communication Core Research at PictureTel Corporation, the quondam world leader in videoconferencing communication. He was previously a Howard Hughes Fellow and Member of the Technical Staff in the Advanced Systems Division of Hughes Aircraft Corporation and was a terrain-following radar system software engineer for Texas Instruments.

His research interests and areas of publication include image and video compression, rate-distortion optimization, motion representation, scalar and vector quantization, error and packet loss resilient video coding, digital cinema, and video streaming.

Wednesday, 25 September 2002 — 8:00 - 9:00

The Grand Ballroom of the Hyatt Regency

Adaptive Optics for the Human Eye

Dave Williams, University of Rochester

Adaptive optics can extend not only the resolution of ground-based telescopes, but also the human eye. Both static and dynamic aberrations in the cornea and lens of the normal eye limit its optical quality. Though it is possible to correct defocus and astigmatism with spectacle lenses, higher order aberrations remain. These aberrations blur vision and prevent us from seeing at the fundamental limits set by the retina and brain. They also limit the resolution of cameras to image the living retina, cameras that are critical for the diagnosis and treatment of retinal disease. I will describe an adaptive optics system that measures the wave aberration of the eye in real time and compensates for it with a deformable mirror, endowing the human eye with unprecedented optical quality. This instrument provides fresh insight into the ultimate limits on human visual acuity, reveals for the first time images of the retinal cone mosaic responsible for color vision, and points the way to contact lenses and laser surgical methods that could enhance vision beyond what is currently possible today. Supported by the NSF Science and Technology Center for Adaptive Optics, the National Eye Institute, and Bausch and Lomb, Inc.

Dave Williams - graduated from Denison University in 1975 with a B.S. in Psychology. He received his Ph.D. from the University of California, San Diego in 1979 and completed a postdoctoral fellowship at Bell Laboratories, Murray Hill in 1980. He is currently the William G. Allyn Professor of Medical Optics at the University of Rochester. Since 1991, Williams has served as Director of Rochester's Center for Visual Science, an interdisciplinary research program of 25 faculty interested in the mechanisms of human vision.

Williams' research marshals optical technology to address questions about the fundamental limits of spatial and color vision. He received the APA's Distinguished Scientific Award for an Early Contribution to Psychology in 1986. He was awarded a National Eye Institute Research and Career Development Award in 1986 and a John Simon Guggenheim Memorial Fellowship in 1997. He is a Fellow and a former member of the Board of Directors of the Optical Society of America. He received its Edgar G. Tillyer Award for outstanding research in visual science in 1998.

SOCIAL ACTIVITIES & MEETINGS

The Organizing Committee of ICIP 2002 hopes that you will enjoy meeting with your colleagues and participating in the activities that have been planned for you.

Sunday, 22 September 2002

Awards Ceremony 18:00 - 18:30 Grand Ballroom/Hyatt Regency

Welcome Reception 18:30 - 20:30 Grand Ballroom/Hyatt Regency

The ICIP 2002 Awards Ceremony and Welcome Reception will begin at 18:00 in the Grand Ballroom of the Hyatt Regency. **The Eastman Jazz Trio**, with Rich Thompson, Harold Danko, and Jeff Campbell from the University of Rochester Eastman School of Music <http://www.rochester.edu/Eastman/jazz/jazz_faculty.htm> will play during this event. This event is free to all registered attendees. Hors d'oeuvres and drinks will be available for you to enjoy in this beautiful setting.

Monday, 23 September 2002

Image and Multidimensional Signal Processing TC

12:30 - 14:00 / Hyatt Regency Wilmorite Room

Tuesday, 24 September 2002

Editorial Board of IEEE Transactions on Image Processing

12:30 - 14:00 / Hyatt Regency Wilmorite Room

Banquet featuring the **Gap Mangione Big Band**

<<http://www.gapmangione.com>>

18:30 / Convention Center Ballroom

Wednesday, 25 September 2002

ICIP to ICIP Luncheon

12:30 - 14:00 / Hyatt Regency Wilmorite Room

IEEE Signal Processing Society Executive Committee Luncheon

12:00 - 14:00 / Hyatt Regency Carson Room

IEEE Signal Processing Society Conference Board Dinner

18:00 - 19:00 / Hyatt Regency Wilmorite Room

IEEE Signal Processing Society Conference Board Meeting

19:00 - 24:00 / Hyatt Regency Grand Ballroom F/G

Thursday, 26 September 2002

IEEE Signal Processing Society Board of Governors Breakfast

8:00 - 9:00 / Hyatt Regency Carson Room

IEEE Signal Processing Society Board of Governors Meeting

9:00 - 17:00 / Hyatt Regency Carson Room

IEEE Signal Processing Society Board of Governors Luncheon

12:00 - 13:00 / Hyatt Regency Wilmorite Room

Friday, 27 September 2002

IEEE Signal Processing Society Long-Range Planning Breakfast
8:00 - 9:00 / Four Points Sheraton Anthony

IEEE Signal Processing Society Long-Range Planning Meeting
9:00 - 17:00 / Four Points Sheraton Anthony

IEEE Signal Processing Society Long-Range Planning Luncheon
12:00 - 13:00 / Four Points Sheraton Riverview Lounge

CONFERENCE REGISTRATION

On-site registration and the distribution of conference materials to pre-registered attendees will be handled at the ICIP 2002 Registration Desk located in the Reception Foyer of the Hyatt Regency on Sunday, September 22, 2002 and on Monday, September 23, 2002 through Wednesday, September 24 in the Convention Center Empire Lobby.

Sunday 7:30 - 18:00 Hyatt Regency Reception Foyer
Monday 7:30 - 17:00 Convention Center Empire Lobby
Tuesday 8:00 - 17:00 Convention Center Empire Lobby
Wednesday 8:00 - 17:00 Convention Center Empire Lobby

SPEAKERS' PREPARATION AREA

Projectors, tables, scissors, tape, and other items to help presenters with last-minute preparations are available in Aqueduct D of the Convention Center.

INTERNET ACCESS

The Internet Cafe will be located in Aqueduct A and B of the Convention Center. The Internet Cafe will be available from 7:00 a.m. until 10:00 p.m. during the conference providing for email and web access for your convenience.

This ICIP 2002 features a new system that will allow you to print your own schedule as well as allowing you to access and print abstracts from the conference.

REFRESHMENT BREAKS

Morning and afternoon refreshments will be provided during breaks between the technical sessions. All breaks will be held in the Exhibit and Poster Area in the Convention Center.

Monday, 23 September 2002

MA-L1 **WIRELESS IMAGING (Special)**
Time: Monday, 23 September 2002, 8:30 - 11:30
Place: Highland A
Chair: Chang Wen Chen, Sarnoff Corporation

8:30
MA-L1.1 **WIRELESS MEETS MULTIMEDIA - NEW PRODUCTS AND SERVICES**
Yrjö Neuvo, Jukka Yrjänäinen, Nokia, Finland

8:50
MA-L1.2 **3G WIRELESS MULTIMEDIA: TECHNOLOGIES AND PRACTICAL ISSUES**
Wenjun Zeng, Jiangtao Wen, PacketVideo Corporation, United States

9:10
MA-L1.3 **ADVANCES IN CHANNEL-ADAPTIVE VIDEO STREAMING**
Bernd Girod, Mark Kalman, Yi Liang, Rui Zhang, Stanford University, United States

9:30
MA-L1.4 **DISPLAYING IMAGES ON MOBILE DEVICES: CAPABILITIES, ISSUES, AND SOLUTIONS**
Jiebo Luo, Amit Singhal, Gustav Braun, Robert Gray, Olivier Seignol, Nicolas Touchard, Eastman Kodak Company, United States

9:50
BREAK

10:10
MA-L1.5 **VIDEO TRANSMISSION FOR MULTI-HOP NETWORKS USING IEEE 802.11 FHSS**
Koichiro Ban, Hamid Gharavi, National Institute of Standards and Technology, United States

10:30
MA-L1.6 **WIRELESS VIDEO TRANSPORT USING PATH DIVERSITY: MULTIPLE DESCRIPTION VS. LAYERED CODING**
Yao Wang, Shivendra Panwar, Shunan Lin, Shiwen Mao, Polytechnic University, United States

10:50
MA-L1.7 **SECOND-GENERATION ERROR CONCEALMENT FOR VIDEO TRANSPORT OVER ERROR PRONE CHANNELS**
Trista Pei-chun Chen, Tsuhan Chen, Carnegie Mellon University, United States

11:10
MA-L1.8 **RATE-REDUCTION TRANSCODING DESIGN FOR WIRELESS VIDEO STREAMING**
Anthony Vetro, Mitsubishi Electric Research Laboratories, United States; Chang Wen Chen, Sarnoff Corporation, United States

Monday, 23 September 2002

- MA-L2** **IMAGE PROCESSING FOR BIOMETRICS** (Special)
Time: Monday, 23 September 2002, 8:30 - 11:30
Place: Highland B
Chair: Tsuhan Chen, Carnegie Mellon University
- 8:30
MA-L2.1 **HOW IRIS RECOGNITION WORKS**
John Daugman, University of Cambridge, United Kingdom
- 8:50
MA-L2.2 **DIGITAL SIGNAL PROCESSING IN BIOMETRIC IDENTIFICATION: A REVIEW**
James Wayman, San Jose State University, United States
- 9:10
MA-L2.3 **PROBABILISTIC RECOGNITION OF HUMAN FACES FROM VIDEO**
Rama Chellappa, Volker Krüger, Shaohua Zhou, University of Maryland, United States
- 9:30
MA-L2.4 **FINGERPRINT IMAGE ENHANCEMENT USING WEAK MODELS**
Joanthan Connell, Nalini Ratha, Ruud Bolle, IBM T.J. Watson Research Center, United States
- 9:50
BREAK
- 10:10
MA-L2.5 **HUMAN IDENTIFICATION TECHNICAL CHALLENGES**
P. Jonathon Phillips, DARPA, United States
- 10:30
MA-L2.6 **SPATIAL FREQUENCY DOMAIN IMAGE PROCESSING FOR BIOMETRIC RECOGNITION**
B. V. K. Vijaya Kumar, Marios Savvides, Krithika Venkataramani, Chunyan Xie, Carnegie Mellon University, United States
- 10:50
MA-L2.7 **LEARNING USER-SPECIFIC PARAMETERS IN A MULTIBIOMETRIC SYSTEM**
Anil Jain, Arun Ross, Michigan State University, United States
- 11:10
MA-L2.8 **PRINCIPLE COMPONENT ANALYSIS AND ITS VARIANTS FOR BIOMETRICS**
Tsuhan Chen, Yufeng Jessie Hsu, Xiaoming Liu, Wende Zhang, Carnegie Mellon University, United States

Monday, 23 September 2002

- MA-L3** **VIDEO COMPRESSION I** (Lecture)
Time: Monday, 23 September 2002, 8:30 - 11:30
Place: Highland C
Chair: A. M. Tekalp, University of Rochester
- 8:30
MA-L3.1 **A BACKGROUND MODELING METHOD BY TEXTURE REPLACEMENT AND MAPPING WITH APPLICATION TO CONTENT-BASED MOVIE CODING**
Adriana Dumitras, Barry G. Haskell, AT&T Research Laboratories, United States
- 8:50
MA-L3.2 **VIDEO CODING WITH MOTION COMPENSATION FOR GROUPS OF PICTURES**
Markus Flierl, Bernd Girod, Stanford University, United States
- 9:10
MA-L3.3 **OPTIMAL BIT ALLOCATION FOR LOW BIT RATE VIDEO STREAMING APPLICATIONS**
Jianfei Cai, University of Missouri-Columbia, United States; Zhihai He, Chang Wen Chen, Sarnoff Corporation, United States
- 9:30
MA-L3.4 **SEQUENCE-BASED RATE CONTROL FOR CONSTANT QUALITY VIDEO**
Bo Xie, Wenjun Zeng, PacketVideo Corporation, United States
- 9:50
BREAK
- 10:10
MA-L3.5 **A NOVEL DISTORTION-QUANTIZATION MODEL AND ITS APPLICATION IN LOW BITRATE VIDEO COMMUNICATIONS**
Yong Yan, Kiran Challapali, Philips Research USA, United States
- 10:30
MA-L3.6 **A NONLINEAR SPATIO-TEMPORAL DIFFUSION AND ITS APPLICATION TO PREFILTERING IN MPEG-4 VIDEO CODING**
Hiroyuki Tsuji, Toru Sakatani, Yoshiyuki Yashima, Naoki Kobayashi, NTT Corporation, Japan
- 10:50
MA-L3.7 **LOSSLESS VIDEO CODING USING OPTIMAL 3D PREDICTION**
Dania Brunello, Giancarlo Calvagno, Gian Antonio Mian, Università di Padova, Italy; Roberto Rinaldo, Università di Udine, Italy
- 11:10
MA-L3.8 **LOOK-AHEAD CODING CONSIDERING RATE/DISTORTION-OPTIMIZATION**
Markus Beermann, Mathias Wien, Jens-Rainer Ohm, Institut für Nachrichtentechnik, RWTH, Germany

Monday, 23 September 2002

- MA-L4** **SEGMENTATION I** (Lecture)
Time: Monday, 23 September 2002, 8:30 - 11:30
Place: Highland D
Chair: W. Heinzelman, University of Rochester
- 8:30
MA-L4.1 **SIMILARITY BASED CLUSTERING USING THE EXPECTATION MAXIMIZATION ALGORITHM**
Jovan Brankov, Nikolas Galatsanos, Yongyi Yang, Miles Wernick, Illinois Institute of Technology, United States
- 8:50
MA-L4.2 **RUBBERBAND: AN IMPROVED GRAPH SEARCH ALGORITHM FOR INTERACTIVE OBJECT SEGMENTATION**
Huitao Luo, Hewlett-Packard Company, United States; Alexandros Eleftheriadis, Columbia University, United States
- 9:10
MA-L4.3 **IMAGE SEGMENTATION USING CURVE EVOLUTION AND FLOW FIELDS**
Baris Sumengen, B.S. Manjunath, Charles Kenney, University of California, Santa Barbara, United States
- 9:30
MA-L4.4 **A CURVE EVOLUTION-BASED VARIATIONAL APPROACH TO SIMULTANEOUS IMAGE RESTORATION AND SEGMENTATION**
Junmo Kim, Andy Tsai, Mujdat Cetin, Alan Willsky, Massachusetts Institute of Technology, United States
- 9:50
BREAK
- 10:10
MA-L4.5 **A COMPRESSED DOMAIN VIDEO OBJECT SEGMENTATION SYSTEM**
Michele Jamrozik, Georgia Tech Lorraine, France; Monson Hayes, Georgia Institute of Technology, United States
- 10:30
MA-L4.6 **A NEW APPROACH FOR VIDEO TEXT DETECTION**
Min Cai, Jiqiang Song, Michael Lyu, The Chinese University of Hong Kong, China
- 10:50
MA-L4.7 **CONSTANT FALSE-ALARM RATIO PROCESSING FOR VIDEO CUT DETECTION**
Tieyan Liu, Xudong Zhang, Linwei Shan, Yingning Peng, Tsinghua University, China
- 11:10
MA-L4.8 **RECOGNIZING SPECIFIC TEXTURE PATTERNS BY INTEGRATION OF MULTIPLE TEXTURE METHODS**
Doméneç Puig, Miguel Angel García, Rovira i Virgili University, Spain

Monday, 23 September 2002

- MA-L5** **SEMANTICS IN MULTIMEDIA** (Lecture)
Time: Monday, 23 September 2002, 8:30 - 11:30
Place: Highland E
Chair: S.-F. Chang, Columbia University
- 8:30
MA-L5.1 **A MODEL OF MOTION ATTENTION FOR VIDEO SKIMMING**
Yu-Fei Ma, Hong-Jiang Zhang, Microsoft Research Asia, China
- 8:50
MA-L5.2 **LEARNING PERSONALIZED VIDEO HIGHLIGHTS FROM DETAILED MPEG-7 METADATA**
Alejandro Jaimes, Columbia University, United States; Tomio Echigo, Masayoshi Teraguchi, Fumiko Satoh, IBM Tokyo Research Lab, Japan
- 9:10
MA-L5.3 **SEMANTICS OF MULTIMEDIA IN MPEG-7**
Ana Benitez, Columbia University, United States; Hawley Rising, Sony Electronics, United States; Corinne Jörgensen, University at Buffalo, United States; Riccardo Leonardi, Alesandro Bugatti, University of Brescia, Italy; Koiti Hasida, National Institute of Advanced Industrial Science and Technology, Japan; Rajiv Mehrotra, Eastman Kodak Company, United States; A. Murat Tekalp, Ahmet Ekin, University of Rochester, United States; Toby Walker, Sony Electronics, United States
- 9:30
MA-L5.4 **INTEGRATED SEMANTIC-SYNTACTIC VIDEO EVENT MODELING FOR SEARCH AND RETRIEVAL**
Ahmet Ekin, A. Murat Tekalp, University of Rochester, United States; Rajiv Mehrotra, Eastman Kodak Company, United States
- 9:50
BREAK
- 10:10
MA-L5.5 **MODELING SEMANTIC CONCEPTS TO SUPPORT QUERY BY KEYWORDS IN VIDEO**
Milind Naphade, Sankar Basu, John Smith, Ching-Yung Lin, Belle Tseng, IBM T.J. Watson Research Center, United States
- 10:30
MA-L5.6 **REPRESENTATION OF MOTION ACTIVITY IN HIERARCHICAL LEVELS FOR VIDEO INDEXING AND FILTERING**
Xinding Sun, B.S. Manjunath, University of California, Santa Barbara, United States; Ajay Divakaran, Mitsubishi Electric Research Laboratories, United States
- 10:50
MA-L5.7 **FACE RETRIEVAL BY AN ADAPTIVE MAHALANOBIS DISTANCE USING A CONFIDENCE FACTOR**
Toshio Kamei, NEC Corporation, Japan
- 11:10
MA-L5.8 **A FAST AND ROBUST FACE LOCATION AND FEATURE EXTRACTION SYSTEM**
Tianxiang Yao, Hongdong Li, Guangyao Liu, Xiuqing Ye, Weikang Gu, Yiqing Jin, Zhejiang University, China

Monday, 23 September 2002

- MA-P1** **OBJECT-BASED CODING** (Poster)
Time: Monday, 23 September 2002, 8:30 - 11:30
Place: Empire Hall North Area 1
Chair: F. Pereira, Instituto Superior Técnico
- MA-P1.1** **COLOR-BASED MOUTH SHAPE TRACKING FOR SYNTHESIZING REALISTIC FACIAL EXPRESSIONS**
Lijun Yin, State University of New York at Binghamton, United States;
Anup Basu, University of Alberta, Canada
- MA-P1.2** **SCALABLE CODING OF SHAPE CONTOURS IN SCALE SPACE**
Antonio Pinheiro, Universidade da Beira Interior, Portugal; Mohammed Ghanbari, University of Essex, United Kingdom
- MA-P1.3** **EFFICIENT IMAGE-DEPENDENT OBJECT SHAPE CODING**
Huitao Luo, Hewlett-Packard Company, United States
- MA-P1.4** **SHAPE REFRESHMENT NEED METRIC FOR OBJECT-BASED RESILIENT VIDEO CODING**
Luis Soares, Fernando Pereira, Instituto Superior Técnico / IT, Portugal
- MA-P1.5** **A RECURSIVE SHAPE CONCEALMENT ALGORITHM**
Xiaohuan Li, Aggelos Katsaggelos, Northwestern University, United States; Guido M. Schuster, Hochschule fur Technik Rapperswil, Switzerland
- MA-P1.6** **3D/2D OBJECT-BASED CODING OF HEAD MRI DATA**
Gloria Menegaz, Swiss Federal Institute of Technology (EPFL), Switzerland; Laurent Grewe, VisioWave, R&D Center, Switzerland
- 9:50
BREAK
10:10
- MA-P1.7** **MODEL-BASED FACE IMAGE CODING USING SPHERICAL HARMONICS**
Zhen Wen, Thomas Huang, University of Illinois at Urbana-Champaign, United States; Zicheng Liu, Microsoft Research, United States
- MA-P1.8** **A PROPOSAL FOR HIGH COMPRESSION OF FACES IN VIDEO SEQUENCES USING ADAPTIVE EIGENSPACES**
Luis Torres, Daniel Prado, Polytechnic University of Catalonia, Spain
- MA-P1.9** **A FAST AND HIGH SUBJECTIVE QUALITY SPRITE GENERATION ALGORITHM WITH FRAME SKIPPING AND MULTIPLE SPRITES TECHNIQUES**
Shao-Yi Chien, Ching-Yeh Chen, Wei-Min Chao, Chih-Wei Hsu, Yu-Wen Huang, Liang-Gee Chen, National Taiwan University, Taiwan
- MA-P1.10** **SCALABLE IDEAL-SEGMENTED CHAIN CODING**
Mei-Chen Yeh, Yen-Lin Huang, Jia-Shung Wang, National Tsing Hua University, Taiwan
- MA-P1.11** **HIGH EFFICIENT SPRITE CODING WITH DIRECTIONAL SPATIAL PREDICTION**
Yan Lu, Harbin Institute of Technology, China; Wen Gao, Chinese Academy of Sciences, China; Feng Wu, Microsoft Research Asia, China
- MA-P1.12** **INVARIANT EXTRACTION AND SEGMENTATION OF 3D OBJECTS USING LINEAR LIE ALGEBRA MODEL**
Jinhui Chao, Masaki Suzuki, Chuo University, Japan

Monday, 23 September 2002

- MA-P2** **IMAGE COMPRESSION & TRANSMISSION** (Poster)
Time: Monday, 23 September 2002, 8:30 - 11:30
Place: Empire Hall North Area 2
Chair: Z. Xiong, Texas A&M University
- MA-P2.1** **AN EFFICIENT PACKETIZATION ALGORITHM FOR JPEG2000**
Wei Yu, Washington University, United States; Fangting Sun, Iowa State University, United States; Jason Fritts, Washington University, United States
- MA-P2.2** **UNEQUAL ERROR PROTECTION FOR TRANSMISSION OF JPEG2000 CODESTREAMS OVER NOISY CHANNELS**
Zhenyu Wu, Ali Bilgin, Michael W. Marcellin, The University of Arizona, United States
- MA-P2.3** **HIGHLY SCALABLE IMAGE COMPRESSION BASED ON SPIHT FOR NETWORK APPLICATIONS**
Habibollah Danyali, Alfred Mertins, University of Wollongong, Australia
- MA-P2.4** **AN ARQ-BASED DIVERSITY SYSTEM FOR TRANSMISSION OF EZW COMPRESSED IMAGES OVER NOISY CHANNELS**
Jen-Chang Liu, Wen-Liang Hwang, Academia Sinica, Taiwan; Wen-Jyi Hwang, Chung Yung Christian University, Taiwan
- MA-P2.5** **LOW COMPLEXITY GUARANTEED FIT COMPOUND DOCUMENT COMPRESSION**
Debargha Mukherjee, Hewlett-Packard Laboratories, United States; Christos Chrysafis, Divio, Inc., United States; Amir Said, Hewlett-Packard Laboratories, United States
- MA-P2.6** **REMOTE BROWSING OF JPEG2000 IMAGES**
David Taubman, The University of New South Wales, Australia
- 9:50
BREAK
10:10
- MA-P2.7** **REDUCED DCT APPROXIMATIONS FOR LOW BIT RATE CODING**
Ricardo De Queiroz, Xerox Corporation, United States
- MA-P2.8** **DCT APPROXIMATION FOR LOW BIT RATE CODING USING A CONDITIONAL TRANSFORM**
Ricardo De Queiroz, Xerox Corporation, United States
- MA-P2.9** **DECODING OF IMAGES USING SOFT-BITS AND MARKOV RANDOM FIELD MODELING**
Alfred Mertins, Olivier Jamart, University of Wollongong, Australia
- MA-P2.10** **A NOVEL ERROR CORRECTION METHOD WITHOUT OVERHEAD FOR CORRUPTED JPEG IMAGES**
Mohamed Bingabr, Pramod Varshney, Syracuse University, United States
- MA-P2.11** **ROBUST STILL IMAGE CODING USING LAPPED TRANSFORMS WITH BLOCK CLASSIFICATION**
Arthur L. A. da Cunha, Weiler A. Finamore, Catholic University of Rio de Janeiro, Brazil; Eduardo A. B. da Silva, Federal University of Rio de Janeiro, Brazil
- MA-P2.12** **IMAGE CODING USING ENTROPY-CONSTRAINED REFLECTED RESIDUAL VECTOR QUANTIZATION**
Mohammad Khan, Wail Mousa, King Fahd University of Petroleum and Minerals, Saudi Arabia

Monday, 23 September 2002

- MA-P3** **COMPUTER VISION I** (Poster)
Time: Monday, 23 September 2002, 8:30 - 11:30
Place: Empire Hall North Area 3
Chair: J. Ostermann, AT&T Labs - Research
- MA-P3.1** **FACE PHOTO RECOGNITION USING SKETCH**
Xiaou Tang, Xiaogang Wang, The Chinese University of Hong Kong, Hong Kong SAR of China
- MA-P3.2** **DENSE STEREO MATCHING METHOD USING A QUARTER OF WAVELET TRANSFORM**
Guillaume Moreau, Philippe Fuchs, Ecole des Mines de Paris, France; Andrei Doncescu, Sébastien Régis, LAAS - CNRS, France
- MA-P3.3** **A KERNEL MACHINE BASED APPROACH FOR MULTI-VIEW FACE RECOGNITION**
Juwei Lu, Konstantinos N. Plataniotis, Anastasios N. Venetsanopoulos, University of Toronto, Canada
- MA-P3.4** **TAG-BASED VISION: ASSISTING 3D SCENE ANALYSIS WITH RADIO-FREQUENCY TAGS**
Mustapha Boukraa, Shigeru Ando, University of Tokyo, Japan
- MA-P3.5** **FINGERPRINT MATCHING BASED ON ERROR PROPAGATION**
Ying Hao, Tieniu Tan, Yunhong Wang, Chinese Academy of Sciences, China
- MA-P3.6** **ROBUST FINGERPRINT IDENTIFICATION**
Xuejun Tan, Bir Bhanu, University of California, Riverside, United States
- 9:50
BREAK
10:10
- MA-P3.7** **HEAD POSE ESTIMATION USING GABOR EIGENSPACE MODELING**
Wei Yucheng, Chinese Academy of Sciences, China; Fradet Ludovic, Institut National des Sciences Appliquées de Lyon, France; Tan Tieniu, Chinese Academy of Sciences, China
- MA-P3.8** **MODEL-DRIVEN STATISTICAL ANALYSIS OF HUMAN GAIT MOTION**
Jang-Hee Yoo, Mark S. Nixon, Chris. J. Harris, University of Southampton, United Kingdom
- MA-P3.9** **A NOVEL SKIN COLOR MODEL IN YCBCR COLOR SPACE AND ITS APPLICATION TO HUMAN FACE DETECTION**
Son Lam Phung, Abdesselam Bouzerdoum, Douglas Chai, Edith Cowan University, Australia
- MA-P3.10** **OCCLUDED FACE RECOGNITION BASED ON GABOR WAVELETS**
Burcu Kepenekci, F. Boray Tek, The Scientific and Technical Council of Turkey, Turkey; Gozde Bozdagi Akar, Middle East Technical University, Turkey
- MA-P3.11** **REAL-TIME HEAD ORIENTATION ESTIMATION USING NEURAL NETWORKS**
Liang Zhao, University of Maryland, United States; Gopal Pingali, IBM T.J. Watson Research Center, United States; Ingrid Carlbom, Bell Labs, Lucent Technologies, United States
- MA-P3.12** **LIKELIHOOD NORMALIZATION FOR FACE AUTHENTICATION IN VARIABLE RECORDING CONDITIONS**
Conrad Sanderson, Kuldip K. Paliwal, Griffith University, Australia
- MA-P3.13** **MOVING VEHICLE VELOCITY ESTIMATION FROM OBSCURE FALLING SNOW SCENES BASED ON BRIGHTNESS AND CONTRAST MODEL**
Hidetomo Sakaino, NTT Communication Science Labs, Japan

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- MA-P4** **RESTORATION** (Poster)
Time: Monday, 23 September 2002, 8:30 - 11:30
Place: Empire Hall North Area 4
Chair: Y. Zeevi, Columbia University
- MA-P4.1** **A VQ-BASED IMAGE RESTORATION ALGORITHM**
Ryo Nakagaki, Hitachi, Ltd., Japan; Aggelos Katsaggelos, Northwestern University, United States
- MA-P4.2** **WAVELET-DOMAIN RECONSTRUCTION OF LOST BLOCKS IN WIRELESS IMAGE TRANSMISSION AND PACKET-SWITCHED NETWORKS**
Shantanu Rane, Jeremiah Remus, Guillermo Sapiro, University of Minnesota, United States
- MA-P4.3** **AN ITERATIVE ALGORITHM FOR RESTORATING COLOR-QUANTIZED IMAGES**
Yik-Hing Fung, Yuk-Hee Chan, The Hong Kong Polytechnic University, Hong Kong SAR of China
- MA-P4.4** **STRUCTURE AND TEXTURE FILLING-IN OF MISSING IMAGE BLOCKS IN WIRELESS TRANSMISSION AND COMPRESSION**
Shantanu Rane, Guillermo Sapiro, Marcelo Bertalmio, University of Minnesota, United States
- MA-P4.5** **AN ACCURATE NOISE DETECTOR FOR IMAGE RESTORATION**
Keiko Kondo, Miki Haseyama, Hideo Kitajima, Hokkaido University, Japan
- MA-P4.6** **PARAMETRIC TEXTURE SYNTHESIS FOR FILLING HOLES IN PICTURE**
Anil Kokaram, University of Dublin, Trinity College, Ireland
- 9:50
BREAK
10:10
- MA-P4.7** **ADAPTIVE NOISE DETECTION FOR IMAGE RESTORATION WITH A MULTIPLE WINDOW CONFIGURATION**
E. S. Hore, B. Qiu, H. R. Wu, Monash University, Australia
- MA-P4.8** **SATELLITE AND AERIAL IMAGE DECONVOLUTION USING AN EM METHOD WITH COMPLEX WAVELETS**
Andre Jalobeanu, CNRS/INRIA/UNSA, France; Robert Nowak, Rice University, United States; Josiane Zerubia, CNRS/INRIA/UNSA, France; Mário Figueiredo, Institute of Telecommunications, Portugal
- MA-P4.9** **IMAGE RESTORATION UNDER WAVELET-DOMAIN PRIORS: AN EXPECTATION-MAXIMIZATION APPROACH**
Mário Figueiredo, Instituto Superior Técnico, Portugal; Robert Nowak, Rice University, United States
- MA-P4.10** **TRUNCATED EDGES ESTIMATION USING MLP NEURAL NETS APPLIED TO REGULARIZED IMAGE RESTORATION**
Emiliano Bernués, Universidad de Zaragoza, Spain; Guillermo Cisneros, Universidad Politécnica de Madrid, Spain; Marisa Capella, Universidad de Zaragoza, Spain
- MA-P4.11** **ADAPTIVE IMAGE RESTORATION USING STRUCTURE TENSORS**
Lixin Fan, Liying Fan, Chew Lim Tan, National University of Singapore, Singapore
- MA-P4.12** **COMPARISON OF THE MAIN FORMS OF HALF-QUADRATIC REGULARIZATION**
Mila Nikolova, ENST, France; Michael Ng, The University of Hong Kong, Hong Kong SAR of China

Monday, 23 September 2002

- MA-P5** **WAVELET AND MULTIREOLUTION PROCESSING** (Poster)
Time: Monday, 23 September 2002, 8:30 - 11:30
Place: Empire Hall North Area 5
Chair: J. Fowler, Mississippi State University
- MA-P5.1** **THE CONSTRUCTION OF A STATISTICAL PREDICTION LIFTING OPERATOR AND ITS APPLICATION**
Hongliang Li, Guizhong Liu, Yongli Li, Xingsong Hou, Xi'an Jiaotong University, China
- MA-P5.2** **CONTOURLETS: A DIRECTIONAL MULTIREOLUTION IMAGE REPRESENTATION**
Minh Do, University of Illinois at Urbana-Champaign, United States; Martin Vetterli, Swiss Federal Institute of Technology (EPFL), Switzerland
- MA-P5.3** **TOWARDS RANDOM FIELD MODELING OF WAVELET STATISTICS**
Zohreh Azimifar, Paul Fieguth, Ed Jernigan, University of Waterloo, Canada
- MA-P5.4** **PLATELETS FOR MULTISCALE ANALYSIS IN PHOTON-LIMITED IMAGING**
Rebecca Willett, Robert Nowak, Rice University, United States
- MA-P5.5** **A TOPOLOGICAL VARIATIONAL MODEL FOR IMAGE SINGULARITIES**
A. Ben Hamza, Hamid Krim, North Carolina State University, United States
- MA-P5.6** **REMOVAL OF TILE ARTIFACTS USING PROJECTION ONTO SCALING FUNCTIONS FOR JPEG 2000**
Kathrin Berkner, Edward Schwartz, Ricoh Innovations, Inc., United States
- 9:50
BREAK
10:10
- MA-P5.7** **NOISE ROBUST OVERSAMPLED LINEAR PHASE PERFECT RECONSTRUCTION FILTER BANK WITH A LATTICE STRUCTURE**
Toshihisa Tanaka, Yukihiko Yamashita, Tokyo Institute of Technology, Japan
- MA-P5.8** **ADAPTIVE REPRESENTATION OF JPEG 2000 IMAGES USING HEADER-BASED PROCESSING**
Ramesh Neelamani, Rice University, United States; Kathrin Berkner, Ricoh Innovations, Inc., United States
- MA-P5.9** **ON LATTICE FACTORIZATION OF SYMMETRIC-ANTISYMMETRIC MULTIFILTER BANKS**
Lu Gan, Kai-Kuang Ma, Nanyang Technological University, Singapore
- MA-P5.10** **A COMPARISON OF FIXED-POINT 2D 9X7 DISCRETE WAVELET TRANSFORM IMPLEMENTATIONS**
Hyung Cook Kim, Edward Delp, Purdue University, United States
- MA-P5.11** **MULTIREOLUTION MOMENT FILTERS**
Michael Sühling, Swiss Federal Institute of Technology (EPFL), Switzerland; Muthuvel Arigovindan, Federal Institute of Technology (EPFL), Switzerland; Patrick Hunziker, University Hospital Basel, Switzerland; Michael Unser, Federal Institute of Technology (EPFL), Switzerland
- MA-P5.12** **BUILDING ADAPTIVE 2D WAVELET DECOMPOSITIONS BY UPDATE LIFTING**
Henk Heijmans, Gemma Piella, Centrum voor Wiskunde en Informatica, Netherlands; Béatrice Pesquet-Popescu, ENST, France

Monday, 23 September 2002

- MA-P6** **IMAGE DATABASES AND RETRIEVAL** (Poster)
Time: Monday, 23 September 2002, 8:30 - 11:30
Place: Empire Hall North Area 6
Chair: L. Guan, Ryerson Polytechnic University
- MA-P6.1** **A COMPARATIVE ANALYSIS OF TWO DISTANCE MEASURES IN COLOR IMAGE DATABASES**
Gang Qian, Shamik Sural, Sakti Pramanik, Michigan State University, United States
- MA-P6.2** **LEARNING SIMILARITY SPACE**
Abdurrahman Carkacioglu, Fatos Yarman Vural, Middle East Technical University, Turkey
- MA-P6.3** **AN IMAGE SIGNATURE FOR ANY KIND OF IMAGE**
H. Chi Wong, Marshall Bern, David Goldberg, Xerox PARC, United States
- MA-P6.4** **A GRAPHIC-THEORETIC MODEL FOR INCREMENTAL RELEVANCE FEEDBACK IN IMAGE RETRIEVAL**
Yueting Zhuang, Jun Yang, Zhejiang University, China; Qing Li, City University of Hong Kong, Hong Kong SAR of China; Yunhe Pan, Zhejiang University, China
- MA-P6.5** **IMAGE INFORMATION RETRIEVAL USING ROUGH SET THEORY**
Gang Zhao, Aki Kobayashi, Yoshinori Sakai, Tokyo Institute of Technology, Japan
- MA-P6.6** **FAST AND EFFECTIVE CHARACTERIZATION OF 3D REGION DATA**
Vasileios Megalooikonomou, Haimonti Dutta, Despina Kontos, Temple University, United States
- 9:50
BREAK
10:10
- MA-P6.7** **A SCALE INVARIANT DISTANCE MEASURE FOR TEXTURE RETRIEVAL**
Robert O'Callaghan, David Bull, University of Bristol, United Kingdom
- MA-P6.8** **OBJECT RECOGNITION BY CLUSTERING SPECTRAL FEATURES**
Bin Luo, Anhui University, China / The University of York, United Kingdom; Richard Wilson, Edwin Hancock, The University of York, United Kingdom
- MA-P6.9** **FUZZY COLOR SIGNATURES**
Andres Dorado, Javeriana University, Colombia; Ebroul Izquierdo, Queen Mary, University of London, United Kingdom
- MA-P6.10** **IMAGE SEARCH USING DEFORMABLE CONTOURS**
Preeyakorn Tipwai, Suthep Madarasmi, King Mongkut's University of Technology Thonburi, Thailand
- MA-P6.11** **LONG-TERM SIMILARITY LEARNING IN CONTENT-BASED IMAGE RETRIEVAL**
Jerome Fournier, Matthieu Cord, University of Cergy-Pontoise - ENSEA, France
- MA-P6.12** **A NEW AND SIMPLE SHAPE DESCRIPTOR BASED ON A NON-PARAMETRIC MULTISCALE MODEL**
Max Mignotte, Université de Montréal, Canada

Monday, 23 September 2002

- MA-P7** **SCANNING AND PRINTING (Poster)**
Time: Monday, 23 September 2002, 8:30 - 11:30
Place: Empire Hall North Area 7
Chair: T. Pappas, Northwestern University
- MA-P7.1** **BLIND IMAGE QUALITY ASSESSMENT**
Xin Li, Sharp Laboratories of America, United States
- MA-P7.2** **HIGH QUALITY, LOW COMPLEXITY HALFTONING WITH GOOD COMPRESSIBILITY**
Sang Ho Kim, Jan Allebach, Purdue University, United States
- MA-P7.3** **COLOR PRINTER CHARACTERIZATION IN MATLAB**
Michael Vrhel, ViewAhead Technologies, United States; H. Joel Trussell, North Carolina State University, United States
- MA-P7.4** **INKJET PRINTER MODEL-BASED HALFTONING**
Je-Ho Lee, Hewlett-Packard Company, United States; Jan Allebach, Purdue University, United States
- MA-P7.5** **SCENE SAMPLING FOR THE CONCENTRIC MOSAICS TECHNIQUE**
Xiaoyong Sun, Eric Dubois, University of Ottawa, Canada
- MA-P7.6** **FINGERPRINT QUALITY AND VALIDITY ANALYSIS**
Eyung Lim, Nanyang Technological University, Singapore; XuDong Jiang, Wei Yun Yau, Laboratories for Information Technology, Singapore
- 9:50
BREAK
10:10
- MA-P7.7** **A TRIAGE METHOD OF DETERMINING THE EXTENT OF JPEG COMPRESSION ARTIFACTS**
Jiebo Luo, Qing Yu, Michael Miller, Eastman Kodak Company, United States
- MA-P7.8** **NO-REFERENCE PERCEPTUAL QUALITY ASSESSMENT OF JPEG COMPRESSED IMAGES**
Zhou Wang, Hamid Sheikh, Alan Bovik, The University of Texas, Austin, United States
- MA-P7.9** **WAVELET-BASED TEXTURE FEATURES CAN BE EXTRACTED EFFICIENTLY FROM COMPRESSED-DOMAIN FOR JPEG2000 CODED IMAGES**
Ziyong Xiong, Thomas Huang, University of Illinois at Urbana-Champaign, United States
- MA-P7.10** **EFFICIENT CONTOUR SHAPE DESCRIPTION BY USING FRACTAL INTERPOLATION FUNCTIONS**
Satoshi Uemura, Miki Haseyama, Hideo Kitajima, Hokkaido University, Japan
- MA-P7.11** **ARBITRARY VIEW AND FOCUS IMAGE GENERATION: RENDERING OBJECT-BASED SHIFTING AND FOCUSING EFFECT BY LINEAR FILTERING**
Akira Kubota, Kiyoharu Aizawa, University of Tokyo, Japan
- MA-P7.12** **FITTING SMOOTH SURFACES TO SCATTERED 3D DATA USING PIECEWISE QUADRATIC APPROXIMATION**
Oliver van Kaick, Murilo da Silva, William Schwartz, Helio Pedrini, Federal University of Parana, Brazil

Monday, 23 September 2002

- MP-L1** **MULTI-SENSOR SURVEILLANCE SYSTEMS (Special)**
Time: Monday, 23 September 2002, 14:20 - 17:20
Place: Highland A
Chair: Carlo Regazzoni, University of Genova
- 14:20
MP-L1.1 **MULTISENSOR SURVEILLANCE SYSTEMS BASED ON IMAGE AND VIDEO DATA**
Carlo Regazzoni, University of Genova, Italy; Pramod Varshney, Syracuse University, United States
- 14:40
MP-L1.2 **A VIDEO-BASED SURVEILLANCE SOLUTION FOR PROTECTING THE AIR-INTAKES OF BUILDINGS FROM CHEM-BIO ATTACKS**
Ioannis Pavlidis, Tony Faltsek, Honeywell Laboratories, United States
- 15:00
MP-L1.3 **AN INFORMATION THEORETIC APPROACH TO JOINT PROBABILISTIC FACE DETECTION AND TRACKING**
Evangelos Loutas, Christophoros Nikou, Ioannis Pitas, University of Thessaloniki, Greece
- 15:20
MP-L1.4 **NOISE REDUCTION AND OBJECT ENHANCEMENT IN PASSIVE MILLIMETER WAVE CONCEALED WEAPON DETECTION**
Seungsin Lee, Raghuvveer Rao, Rochester Institute of Technology, United States; Mohamed-Adel Slamani, ITT Industries, United States
- 15:40
BREAK
- 16:00
MP-L1.5 **A STATISTICAL SIGNAL PROCESSING APPROACH TO IMAGE FUSION FOR CONCEALED WEAPON DETECTION**
Jinzhong Yang, Rick Blum, Lehigh University, United States
- 16:20
MP-L1.6 **AN ACTIVE CAMERA SYSTEM FOR ACQUIRING MULTI-VIEW VIDEO**
Robert Collins, Omead Amidi, Takeo Kanade, Carnegie Mellon University, United States
- 16:40
MP-L1.7 **EFFECTIVE INTEGRATION OF OBJECT TRACKING IN A VIDEO CODING SCHEME FOR MULTISENSOR SURVEILLANCE SYSTEMS**
Francesco Ziliani, Julien Reichel, VisioWave Corp., Switzerland
- 17:00
MP-L1.8 **A DISTRIBUTED SENSOR NETWORK FOR VIDEO SURVEILLANCE OF OUTDOOR ENVIRONMENTS**
Gian Luca Foresti, Lauro Snidaro, University of Udine, Italy

Monday, 23 September 2002

MP-L2 **WIRELESS VIDEO AND IMAGE TRANSMISSION** (Lecture)
Time: Monday, 23 September 2002, 14:20 - 17:20
Place: Highland B
Chair: E. Delp, Purdue University

14:20
MP-L2.1 **RATE-DISTORTION OPTIMIZED APPLICATION-LEVEL RETRANSMISSION USING STREAMING AGENT FOR VIDEO STREAMING OVER 3G WIRELESS NETWORK**
Gene Cheung, Hewlett-Packard Japan, Ltd., Japan; Wai-tian Tan, Hewlett-Packard Company, United States; Takeshi Yoshimura, NTT DoCoMo, Inc., Japan

14:40
MP-L2.2 **POWER EFFICIENT H.263 VIDEO TRANSMISSION OVER WIRELESS CHANNELS**
Xiaolan Lu, Yao Wang, Elza Erkip, Polytechnic University, United States

15:00
MP-L2.3 **OPTIMAL SOURCE CODING AND TRANSMISSION POWER MANAGEMENT USING A MIN-MAX EXPECTED DISTORTION APPROACH**
Yiftach Eisenberg, Carlos Luna, Thrasyvoulos Pappas, Randall Berry, Aggelos Katsaggelos, Northwestern University, United States

15:20
MP-L2.4 **H.263+ PACKET VIDEO OVER WIRELESS IP NETWORKS USING RATE-COMPATIBLE PUNCTURED TURBO (RCPT) CODES WITH JOINT SOURCE-CHANNEL CODING**
Yong Pei, Rensselaer Polytechnic Institute, United States; James Modestino, University of Miami, United States

15:40
BREAK

16:00
MP-L2.5 **ERROR CONTROL FOR WIRELESS PROGRESSIVE VIDEO TRANSMISSION**
Thomas Stockhammer, Hrvoje Jenkac, Christian Weiß, Munich University of Technology, Germany

16:20
MP-L2.6 **A JOINT CHANNEL ESTIMATION AND UNEQUAL ERROR PROTECTION SCHEME FOR VIDEO TRANSMISSION IN OFDM SYSTEMS**
Yan Sun, University of Maryland, United States; Xiaowen Wang, Agere Systems, Inc., United States; K.J. Ray Liu, University of Maryland, United States

16:40
MP-L2.7 **PROGRESSIVE IMAGE TRANSMISSION APPLYING MULTIPATH ROUTING IN MOBILE ADHOC NETWORKS**
Pornchai Leelapornchai, Thomas Stockhammer, Munich University of Technology, Germany

17:00
MP-L2.8 **TARGET-AIDED FIXED-QUALITY-OF-SERVICE COMPRESSION OF SAR IMAGERY FOR TRANSMISSION OVER NOISY WIRELESS CHANNELS**
Robert Bonneau, Air Force Research Lab, United States; Glen Abousleman, General Dynamics Decision Systems, United States

Monday, 23 September 2002

MP-L3 **MOTION DETECTION & ESTIMATION I** (Lecture)
Time: Monday, 23 September 2002, 14:20 - 17:20
Place: Highland C

14:20
MP-L3.1 **BAYESIAN SMOOTHING AND FILTERING FOR MULTIFRAME, MULTIASPECT TARGET DETECTION AND TRACKING**
Marcelo Bruno, Instituto Tecnológico de Aeronáutica, Brazil; José Moura, Carnegie Mellon University, United States

14:40
MP-L3.2 **SPEEDING UP SSD PLANAR TRACKING BY PIXEL SELECTION**
José Miguel Buenaposada, Luis Baumela, Universidad Politécnica de Madrid, Spain

15:00
MP-L3.3 **TEMPLATE TRACKING USING COLOR INVARIANT PIXEL FEATURES**
Hieu T. Nguyen, Arnold W. M. Smeulders, University of Amsterdam, Netherlands

15:20
MP-L3.4 **JOINT SPACE-TIME IMAGE SEQUENCE SEGMENTATION BASED ON VOLUME COMPETITION AND LEVEL SETS**
Janusz Konrad, Mirko Ristivojevic, Boston University, United States

15:40
BREAK

16:00
MP-L3.5 **A NEW ALGORITHM FOR TARGET TRACKING USING FUZZY-EDGE-BASED FEATURE MATCHING AND ROBUST STATISTIC**
Alireza Behrad, Seyed Ahmad Motamedí, Amirkabir University of Technology, Iran (Islamic Republic of); Kurosh Madani, University Paris XII, France; Mehdi Esnaashari, Amirkabir University of Technology, Iran (Islamic Republic of)

16:20
MP-L3.6 **REAL TIME 3D FACE TRACKING FROM APPEARANCE**
Florent Duculty, Michel Dhome, Frédéric Jurie, LASMEA - CNRS UMR 6602, France

16:40
MP-L3.7 **VIDEO OBJECT TRAJECTORY ANALYSIS**
Mireya García, Henri Nicolas, IRISA/INRIA, France

17:00
MP-L3.8 **LIKELIHOOD-BASED OBJECT DETECTION AND OBJECT TRACKING USING COLOR HISTOGRAMS AND EM**
Paul Withagen, Klammer Schutte, TNO Physics and Electronics Laboratory, Netherlands; Frans Groen, University of Amsterdam, Netherlands

Monday, 23 September 2002

MP-L4	VIDEO STRUCTURING AND INDEXING (Lecture) Time: Monday, 23 September 2002, 14:20 - 17:20 Place: Highland D Chair: A. Eleftheriadis, Columbia University
14:20	
MP-L4.1	GENERAL AND DOMAIN-SPECIFIC TECHNIQUES FOR DETECTING AND RECOGNIZING SUPERIMPOSED TEXT IN VIDEO Dongqing Zhang, Raj Rajendran, Shih-Fu Chang, Columbia University, United States
14:40	
MP-L4.2	PROBABILISTIC HOME VIDEO STRUCTURING: FEATURE SELECTION AND PERFORMANCE EVALUATION Daniel Gatica-Perez, Dalle Molle Institute for Perceptual Artificial Intelligence (IDIAP), Switzerland; Ming-Ting Sun, University of Washington, United States; Alexander Loui, Eastman Kodak Company, United States
15:00	
MP-L4.3	RULE-BASED SEMANTIC SUMMARIZATION OF INSTRUCTIONAL VIDEOS Tiecheng Liu, John Kender, Columbia University, United States
15:20	
MP-L4.4	MOTION TRAJECTORY BASED VIDEO INDEXING AND RETRIEVAL Chiou-Ting Hsu, Shang-Ju Teng, National Tsing Hua University, Taiwan
15:40	
BREAK	
16:00	
MP-L4.5	EXTRACT HIGHLIGHTS FROM BASEBALL GAME VIDEO WITH HIDDEN MARKOV MODELS Peng Chang, Carnegie Mellon University, United States; Mei Han, Yihong Gong, NEC Corporation, United States
16:20	
MP-L4.6	ECHOCARDIOGRAM VIDEOS: SUMMARIZATION, TEMPORAL SEGMENTATION, AND BROWSING Shahram Ebadollahi, Shih-Fu Chang, Henry Wu, Columbia University, United States
16:40	
MP-L4.7	MODEL-BASED CLUSTERING AND ANALYSIS OF VIDEO SCENES Yap-Peng Tan, Hong Lu, Nanyang Technological University, Singapore
17:00	
MP-L4.8	EFFICIENT VIDEO SIMILARITY MEASUREMENT WITH VIDEO SIGNATURE Sen-ching Cheung, Avideh Zakhor, University of California, Berkeley, United States

Monday, 23 September 2002

MP-L5	CAPTURE AND RENDERING (Lecture) Time: Monday, 23 September 2002, 14:20 - 17:20 Place: Highland E
14:20	
MP-L5.1	IMPROVED DISPLAY RESOLUTION OF SUBSAMPLED COLOUR IMAGES USING SUBPIXEL ADDRESSING Dean Messing, Scott Daly, Sharp Laboratories of America, United States
14:40	
MP-L5.2	IMAGE COMPARISON MEASURE FOR DIGITAL STILL COLOR CAMERAS Rajeev Ramanath, Wesley Snyder, David Hinks, North Carolina State University, United States
15:00	
MP-L5.3	VISUALIZATION OF HIGH DYNAMIC RANGE IMAGES Alvaro Pardo, Universidad de la República, Uruguay; Guillermo Sapiro, University of Minnesota, United States
15:20	
MP-L5.4	HIGHLIGHT SUBSTITUTION IN LIGHT FIELDS Florian Vogt, Universität Erlangen-Nürnberg, Germany; Dietrich Paulus, Universität Koblenz-Landau, Germany; Heinrich Niemann, Universität Erlangen-Nürnberg, Germany
15:40	
BREAK	
16:00	
MP-L5.5	CLUSTERED MINORITY PIXEL ERROR DIFFUSION Pingshan Li, Sony Electronics, United States; Jan Allebach, Purdue University, United States
16:20	
MP-L5.6	RADIALLY BALANCED ERROR DIFFUSION Peter Ilbery, Canon Information Systems Research Australia Pty Ltd, Australia
16:40	
MP-L5.7	A PUBLISHING SYSTEM BASED ON FLUENCY CODING METHOD Fumio Kawazoe, Kazuo Toraichi, Paul Kwan, Koji Nakamura, University of Tsukuba, Japan
17:00	
MP-L5.8	FEATURE-GUIDED PAINTERLY IMAGE RENDERING Nan Li, Zhiyong Huang, National University of Singapore, Singapore

Monday, 23 September 2002

MP-P1	MOTION COMPENSATION (Poster) Time: Monday, 23 September 2002, 14:20 - 17:20 Place: Empire Hall North Area 1 Chair: R. de Queiroz, Xerox Corporation
MP-P1.1	IMPROVED MOTION DESCRIPTION CODING USING THE LIST MAPPING MOTION DESCRIPTION (LMMD) Simon Tredwell, Adrian Evans, University of Bath, United Kingdom
MP-P1.2	PERFORMANCE EVALUATION ON H.26L-BASED MOTION COMPENSATION WITH SEGMENTED MULTIPLE REFERENCE FRAMES Sadaatsu Kato, Shun-ichi Sekiguchi, Satoru Adachi, Minoru Etoh, NTT DoCoMo, Inc., Japan
MP-P1.3	FAST GRADIENT METHODS BASED GLOBAL MOTION ESTIMATION FOR VIDEO COMPRESSION Yosi Keller, Amir Averbuch, Ofer Miller, Tel Aviv University, Israel
MP-P1.4	FULL SEARCH CONTENT INDEPENDENT BLOCK MATCHING BASED ON THE FAST FOURIER TRANSFORM Steven Kiltbau, Mark Drew, Torsten Möller, Simon Fraser University, Canada
MP-P1.5	MOTION FILTER VECTOR QUANTIZATION Dariusz Blasiak, Ingenient Technologies, United States; Wai-Yip Geoffrey Chan, Queen's University, Canada
MP-P1.6	ON REDUCING THE INTER FRAME RATE: AN EMBEDDED RESIDUAL IMAGE MODEL FOR MESH-BASED MOTION TRACKING Yankun Wei, Wael Badawy, University of Calgary, Canada
15:40 BREAK 16:00	
MP-P1.7	A NOVEL SMALL-CROSS-DIAMOND SEARCH ALGORITHM FOR FAST VIDEO CODING AND VIDEOCONFERENCING APPLICATIONS Chun-Ho Cheung, Lai-Man Po, City University of Hong Kong, Hong Kong SAR of China
MP-P1.8	LOW-COMPLEXITY MOTION ESTIMATION FOR VLBR VIDEO CODERS Francesco G.B. De Natale, Fabrizio Granelli, University of Trento, Italy; Gianni Vernazza, University of Genoa, Italy
MP-P1.9	BLOCK MOTION ESTIMATION BASED ON SELECTIVE INTEGRAL PROJECTIONS Jae Hun Lee, Jong Beom Ra, Korea Advanced Institute of Science and Technology, Republic of Korea
MP-P1.10	MESH-BASED MOTION ESTIMATION AND COMPENSATION IN THE WAVELET DOMAIN USING A REDUNDANT TRANSFORM Suxia Cui, Yonghui Wang, James E. Fowler, Mississippi State University, United States
MP-P1.11	EFFICIENT AND ROBUST MOTION ESTIMATION IN GRID-BASED HYBRID VIDEO CODING SCHEMES Guido Heising, Heinrich-Hertz-Institute, Germany
MP-P1.12	NEW FLEXIBLE MOTION ESTIMATION TECHNIQUE FOR SCALABLE MPEG ENCODING USING DISPLAY FRAME ORDER AND MULTI-TEMPORAL REFERENCES Stephan Mietens, University of Technology Eindhoven, Netherlands; Gerben Hekstra, Philips Research Labs., Netherlands; Peter H.N. de With, University of Technology Eindhoven, Netherlands; Christian Hentschel, Philips Research Labs., Netherlands

Monday, 23 September 2002

MP-P2	VIDEO CODING AND TRANSCODING (Poster) Time: Monday, 23 September 2002, 14:20 - 17:20 Place: Empire Hall North Area 2 Chair: S. Wee, Hewlett-Packard Laboratories
MP-P2.1	FAST SOFTWARE MPEG-2 VIDEO TRANSCODER WITH OPTIMIZATION OF REQUANTIZATION ERROR COMPENSATION Junji Tajime, Yuzo Senda, Yoshihiro Miyamoto, NEC Corporation, Japan
MP-P2.2	EFFICIENT VIDEO TRANSCODING WITH SCAN FORMAT CONVERSION Byung Cheol Song, Tae Hee Kim, Kang Wook Chun, Samsung Electronics Co., Ltd., Republic of Korea
MP-P2.3	VIDEO TRANSCODING FOR FAST FORWARD/REVERSE VIDEO PLAYBACK Yap-Peng Tan, YongQing Liang, Jun Yu, Nanyang Technological University, Singapore
MP-P2.4	MPEG VIDEO TRANSCODING TO A FINE-GRANULAR SCALABLE FORMAT Eric Barrau, Philips Recherche, France
MP-P2.5	NESTED INTERLEAVING TRANSCODER FOR MPEG-4 SIMPLE PROFILE BITSTREAM Jinwha Yang, Edward Delp, Purdue University, United States
MP-P2.6	IMPROVED COMPRESSION OF MOTION-COMPENSATED RESIDUALS W. Poh, D.M. Monro, University of Bath, United Kingdom
15:40 BREAK 16:00	
MP-P2.7	COMPLEXITY REDUCTION OF JOINT TEMPORAL-SPATIAL BIT ALLOCATION USING R-D MODELS FOR VIDEO STREAMING Shan Liu, C.-C. Jay Kuo, University of Southern California, United States
MP-P2.8	THREE-DIMENSIONAL OVERLAPPED SPATIAL TRANSFORMATIONS FOR MOTION COMPENSATION Fernando Lopes, Mohammed Ghanbari, University of Essex, United Kingdom
MP-P2.9	COMPLEXITY REGULATION FOR REAL-TIME VIDEO ENCODING Zhun Zhong, Yingwei Chen, Philips Research USA, United States
MP-P2.10	VIDEO CODING ALGORITHM USING 3-D DCT AND VECTOR QUANTIZATION Triet Lai, The University of Sydney, Australia; Ling Guan, Ryerson Polytechnic University, Canada
MP-P2.11	MESH-BASED ERROR-SCALABLE VIDEO OBJECT CODEC FOR VARIABLE BANDWIDTH MULTIMEDIA COMMUNICATIONS Son Tran Minh, Budapest University of Technology and Economics, Hungary; Jenny Benois-Pineau, LABRI UMR CNRS 5800/University Bordeaux -1, France; Kalman Fazekas, Andras Gschwindt, Budapest University of Technology and Economics, Hungary
MP-P2.12	VIDEO CODING FOR DIGITAL CINEMA Peisong Chen, John Woods, Rensselaer Polytechnic Institute, United States

Monday, 23 September 2002

- MP-P3** **APPLICATIONS OF IMAGE SEGMENTATION** (Poster)
Time: Monday, 23 September 2002, 14:20 - 17:20
Place: Empire Hall North Area 3
Chair: N. Kingsbury, University of Cambridge
- MP-P3.1** **GROUPING CONTOUR POINTS TO LINE SEGMENTS USING SIGNATURE FUNCTIONS**
Xiaofeng Zhang, Orbotech Schuh GmbH & Co. KG, Germany; Hans Burkhardt, University of Freiburg, Germany
- MP-P3.2** **FAST EXTRACTION OF SCENE STRUCTURE BASED ON GRADIENT RUNS ANALYSIS**
Alexander Bovyryn, Intel Corporation, Nizhny Novgorod Laboratory, Russian Federation
- MP-P3.3** **A FRAMEWORK FOR THE EFFICIENT SEGMENTATION OF LARGE-FORMAT COLOR IMAGES**
Vasileios Mezaris, Aristotle University of Thessaloniki, Greece; Ioannis Kompatsiaris, Informatics and Telematics Institute, Greece; Michael Strintzis, Aristotle University of Thessaloniki, Greece
- MP-P3.4** **MARKOV RANDOM MEASURE FIELDS FOR IMAGE ANALYSIS**
José Marroquín, Edgar Arce, Salvador Botello, CIMAT, Mexico
- MP-P3.5** **GRADIENT BASED SPLITTING OF BLOCKS OF HOUSES IN HIGH-RESOLUTION ORTHO-IMAGES**
Stefan Mayer, German Aerospace Center, Germany
- MP-P3.6** **A GLOBAL-TO-LOCAL APPROACH FOR ROBUST RANGE IMAGE SEGMENTATION**
Luciano Silva, Centro Federal de Educação, Brazil; Olga Regina Pereira Bellon, Paulo Fabiano Umu Gotardo, Universidade Federal do Paraná, Brazil
- 15:40
BREAK
16:00
- MP-P3.7** **IMAGE SEGMENTATION UTILIZING WAVELET-BASED SPATIALLY ADAPTIVE KERNELS**
Mohammed Saeed, Massachusetts Institute of Technology, United States; William Karl, Boston University, United States
- MP-P3.8** **GESTURE RECOGNITION IN REALISTIC IMAGES: THE STATISTICAL APPROACH**
Miltiadis Vimplis, Konstantinos Kyriakopoulos, National Technical University of Athens, Greece
- MP-P3.9** **SCALABLE DISCREPANCY MEASURES FOR SEGMENTATION EVALUATION**
Odet Christophe, Belaroussi Boubakeur, Benoit-Cattin Hugues, UMR-CNRS 5515, France
- MP-P3.10** **WATERSHED AND ADAPTIVE PYRAMID FOR DETERMINING THE APPLE'S MATURITY STATE**
Eric Laemmer, Aline Deruyver, CNRS, France; Malgorzata Sowinska, EURORAD, France
- MP-P3.11** **AUTOMATIC THRESHOLD DETERMINATION OF CENTROID-LINKAGE REGION GROWING BY MPEG-7 DOMINANT COLOR DESCRIPTORS**
Fatih Porikli, Mitsubishi Electric Research Laboratories, United States
- MP-P3.12** **FUZZY RULE FOR IMAGE SEGMENTATION INCORPORATING TEXTURE FEATURES**
Gour Karmakar, Laurence Dooley, Manzur Murshed, Monash University, Australia

Monday, 23 September 2002

- MP-P4** **FILTERING & ENHANCEMENT** (Poster)
Time: Monday, 23 September 2002, 14:20 - 17:20
Place: Empire Hall North Area 4
Chair: P. Moulin, University of Illinois at Urbana-Champaign
- MP-P4.1** **A FULLY AUTOMATIC REDEYE DETECTION AND CORRECTION ALGORITHM**
Jay Schildkraut, Robert Gray, Eastman Kodak Company, United States
- MP-P4.2** **AUTOMATIC RED-EYE DETECTION AND CORRECTION**
Matthew Gaubatz, Cornell University, United States; Robert Ulichney, Hewlett-Packard Company, United States
- MP-P4.3** **ADAPTIVE TWO-PASS MEDIAN FILTER TO REMOVE IMPULSIVE NOISE**
Xiaoyin Xu, Eric Miller, Northeastern University, United States
- MP-P4.4** **FAST TEXT/GRAPHICS RESOLUTION IMPROVEMENT USING WAVELET BASED DENOISING AND CHAIN-CODE TABLE LOOKUP**
Onur G. Guleryuz, Anoop Bhattacharjya, Epson Palo Alto Laboratory, United States
- MP-P4.5** **OBSERVER-DEPENDENT SHARPENING**
Hamid R. Tizhoosh, University of Waterloo, Canada
- MP-P4.6** **A NEW MOIRE SMOOTHING METHOD FOR COLOR INVERSE HALFTONING**
Youngmee Han, Pusan National University, Republic of Korea; Jongmin Kim, Kosin University, Republic of Korea; Minhwan Kim, Pusan National University, Republic of Korea
- 15:40
BREAK
16:00
- MP-P4.7** **ENHANCEMENT OF LOSSY COMPRESSED IMAGES BY MODELING WITH BERNSTEIN POLYNOMIALS**
Joceli Mayer, Federal University of Santa Catarina, Brazil
- MP-P4.8** **ANISOTROPIC VECTOR DIFFUSION IN IMAGE SMOOTHING**
Zeyun Yu, Chandrajit Bajaj, The University of Texas, Austin, United States
- MP-P4.9** **ERROR CONCEALMENT USING A DIFFUSION BASED METHOD**
Hao Jiang, Cecilia Moloney, Memorial University of Newfoundland, Canada
- MP-P4.10** **FRACTAL-WAVELET IMAGE DENOISING**
M. Ghazel, G.H. Freeman, E.R. Vrscay, University of Waterloo, Canada
- MP-P4.11** **RELIABLE AND FAST STRUCTURE-ORIENTED VIDEO NOISE ESTIMATION**
Aishy Amer, Amar Mitiche, INRS-Télécommunications, Canada; Eric Dubois, University of Ottawa, Canada
- MP-P4.12** **IMAGE FEATURE DETECTION ON CONTENT-BASED MESHES**
Sonya Coleman, Bryan Scotney, Madonna Herron, University of Ulster, United Kingdom

Monday, 23 September 2002

- MP-P5** **MODELING AND ARCHITECTURE** (Poster)
Time: Monday, 23 September 2002, 14:20 - 17:20
Place: Empire Hall North Area 5
Chair: A. Hero, University of Michigan
- MP-P5.1** **MODELING THE SELF-SIMILAR BEHAVIOR OF PACKETIZED MPEG-4 VIDEO USING WAVELET-BASED METHODS**
Dogu Arifler, Brian Evans, The University of Texas, Austin, United States
- MP-P5.2** **A SPECTRAL APPROACH TO STATISTICAL POLAR SHAPE MODELING**
Jia Li, Alfred Hero, University of Michigan, United States
- MP-P5.3** **3D MODELING OF REAL ENVIRONMENTS BY AUTONOMOUS MOBILE ROBOT WITH STEREO VISION**
Satoshi Futami, Takayuki Nagai, Akira Kurematsu, The University of Electro-Communications, Japan
- MP-P5.4** **MODELING OBJECT CLASSES IN AERIAL IMAGES USING HIDDEN MARKOV MODELS**
Shawn Newsam, Sitaram Bhagavathy, B.S. Manjunath, University of California, Santa Barbara, United States
- MP-P5.5** **A STATISTICAL ANALYSIS OF DIFFRACTION-LIMITED IMAGING**
Peyman Milanfar, Ali Shakouri, University of California, Santa Cruz, United States
- MP-P5.6** **SEAFLOOR VIDEO MAPPING: MODELING, ALGORITHMS, APPARATUS**
Yuri Rzhanov, Lloyd Huff, George Cutter, University of New Hampshire, United States
- 15:40
BREAK
16:00
- MP-P5.7** **A HIGH THROUGHPUT LOW COST CONTEXT-BASED ADAPTIVE ARITHMETIC CODEC FOR MULTIPLE STANDARDS**
Keng-Khai Ong, Wei-Hsin Chang, Yi-Chen Tseng, Yew-San Lee, Chen-Yi Lee, National Chia Tung University, Taiwan
- MP-P5.8** **BAYESIAN WAVELET SHRINKAGE IN TRANSFORMATION BASED NORMAL MODELS**
Shubhankar Ray, Andrew Chan, Bani Mallick, Texas A&M University, United States
- MP-P5.9** **HIDDEN SEMI-MARKOV EVENT SEQUENCE MODELS: APPLICATION TO BRAIN FUNCTIONAL MRI SEQUENCE ANALYSIS**
Sylvain Faisan, Laurent Thoraval, LSII-UMR CNRS 7005, France; Jean-Paul Armpach, IPB-UMR CNRS 7004, France; Fabrice Heitz, LSII-UMR CNRS 7005, France
- MP-P5.10** **TAST - TRADEMARK APPLICATION ASSISTANT**
Paul Kwan, Kazuo Toraichi, Keisuke Kameyama, Fumio Kawazoe, Koji Nakamura, University of Tsukuba, Japan
- MP-P5.11** **HIERARCHICAL APPROACH TO ENHANCED ACTIVE SHAPE MODEL FOR COLOR VIDEO TRACKING**
Sangkyu Kang, Andreas Koschan, Hongsheng Zhang, Joonki Paik, Besma Abidi, Mongi Abidi, The University of Tennessee, Knoxville, United States
- MP-P5.12** **A VIDEO SURVEILLANCE ARCHITECTURE FOR ALARM GENERATION AND VIDEO SEQUENCES RETRIEVAL**
Luca Marchesotti, Lucio Marcenaro, University of Genova, Italy; Carlo Regazzoni, University of Genoa, Italy

Monday, 23 September 2002

- MP-P6** **MULTIMEDIA DESCRIPTION** (Poster)
Time: Monday, 23 September 2002, 14:20 - 17:20
Place: Empire Hall North Area 6
Chair: S. U. Lee, Seoul National University
- MP-P6.1** **A VERTEX-BASED REPRESENTATION OF OBJECTS IN AN IMAGE**
Gozde Unal, Hamid Krim, North Carolina State University, United States; Anthony Yezzi, Georgia Institute of Technology, United States
- MP-P6.2** **AN EXTENDED SET OF HAAR-LIKE FEATURES FOR RAPID OBJECT DETECTION**
Rainer Lienhart, Jochen Maydt, Intel Corporation, United States
- MP-P6.3** **DISTANCE METRIC FOR MOTION VECTOR HISTOGRAMS BASED ON HUMAN PERCEPTUAL CHARACTERISTICS**
Toshiyuki Yoshida, Tokyo Institute of Technology, Japan
- MP-P6.4** **RETRIEVAL OF SKETCHES BASED ON SPATIAL RELATION BETWEEN STROKES**
Wing Ho Leung, Tshuan Chen, Carnegie Mellon University, United States
- MP-P6.5** **VIDEO INDEXING BY MOTION ACTIVITY MAPS**
Wei Zeng, Harbin Institute of Technology, China; Wen Gao, Chinese Academy of Sciences, China; Debin Zhao, Harbin Institute of Technology, China
- MP-P6.6** **HYBRID AND PARALLEL FACE CLASSIFIER BASED ON ARTIFICIAL NEURAL NETWORKS AND PRINCIPAL COMPONENT ANALYSIS**
Peter Bazanov, Moscow State University, Russian Federation; Tae-Kyun Kim, Seok Cheol Kee, Samsung Advanced Institute of Technology, Democratic People's Republic of Korea; Sang Uk Lee, Seoul National University, Democratic People's Republic of Korea
- 15:40
BREAK
16:00
- MP-P6.7** **LEARNING A DECISION BOUNDARY FOR FACE DETECTION**
Tae-Kyun Kim, Donggeon Kong, Sang-Ryong Kim, Samsung Advanced Institute of Technology, Democratic People's Republic of Korea
- MP-P6.8** **REGION-BASED IMAGE REGISTRATION FOR WIDE BASELINE STEREO**
Sujoy Roy, National University of Singapore, Singapore; Sanjeev Kapoor, Illinois Institute of Technology, United States
- MP-P6.9** **RATE-CONSTRAINED KEY FRAME SELECTION USING ITERATION**
HunCheol Lee, SeongDae Kim, Korea Advanced Institute of Science and Technology, Republic of Korea
- MP-P6.10** **MOTION ACTIVITY-BASED EXTRACTION OF KEY-FRAMES FROM VIDEO SHOTS**
Ajay Divakaran, Regunathan Radhakrishnan, Kadir Peker, Mitsubishi Electric Research Laboratories, United States
- MP-P6.11** **A MODIFIED SHAPE DESCRIPTOR IN WAVELETS COMPRESSED DOMAIN**
Baofeng Guo, The University of Bristol, United Kingdom; Jianmin Jiang, University of Bradford, United Kingdom
- MP-P6.12** **AN EFFECTIVE APPROACH TO EDGE CLASSIFICATION FROM DCT DOMAIN**
Hongliang Li, Guizhong Liu, Yongli Li, Xi'an Jiaotong University, China

Monday, 23 September 2002

- MP-P7** **MULTIMEDIA RETRIEVAL AND APPLICATIONS** (Poster)
Time: Monday, 23 September 2002, 14:20 - 17:20
Place: Empire Hall North Area 7
Chair: A. Loui, Eastman Kodak Corporation
- MP-P7.1** **CONTENT-BASED IMAGE RETRIEVAL USING STOCHASTIC PAINTBRUSH TRANSFORMATION**
Zoltan Kato, Xiaowen Ji, National University of Singapore, Singapore;
Tamas Sziranyi, Zoltan Toth, Laszlo Czuni, Veszprem University, Hungary
- MP-P7.2** **AN IMPROVED ERROR CONTROL PARADIGM FOR MULTIMEDIA TRANSMISSION OVER WIRELESS NETWORKS**
Abed Elhamid Lawabni, Mohamed Mansour, Ahmed H. Tewfik, University of Minnesota, United States
- MP-P7.3** **A MULTIREOLUTION TECHNIQUE FOR VIDEO INDEXING AND RETRIEVAL**
Janko Calic, Ebroul Izquierdo, Queen Mary, University of London, United Kingdom
- MP-P7.4** **AUTOMATED MPEG AUDIO-VIDEO SUMMARIZATION AND DESCRIPTION**
Masaru Sugano, Yasuyuki Nakajima, Hiromasa Yanagihara, KDDI R&D Laboratories Inc., Japan
- MP-P7.5** **AUDIO-VISUAL CONTINUOUS SPEECH RECOGNITION USING MPEG-4 COMPLIANT VISUAL FEATURES**
Petar Aleksic, Jay J. Williams, Zhilin Wu, Aggelos Katsaggelos, Northwestern University, United States
- MP-P7.6** **BIMODAL FUSION IN AUDIO-VISUAL SPEECH RECOGNITION**
Xiaozheng Zhang, Russell Mersereau, Mark Clements, Georgia Institute of Technology, United States
- 15:40
BREAK
16:00
- MP-P7.7** **FEATURE SPACE WARPING: AN APPROACH TO RELEVANCE FEEDBACK**
Hoon Bang, Tsuhan Chen, Carnegie Mellon University, United States
- MP-P7.8** **OPTIMAL RECURSIVE SIMILARITY MEASURE ESTIMATION FOR INTERACTIVE CONTENT-BASED IMAGE RETRIEVAL**
Nikolaos Doulamis, Anastasios Doulamis, National Technical University of Athens, Greece
- MP-P7.9** **INTERACTIVE CONTENT-BASED RETRIEVAL OF VIDEO**
John Smith, Sankar Basu, Ching-Yung Lin, Milind Naphade, Belle Tseng, IBM T.J. Watson Research Center, United States
- MP-P7.10** **EXPLOITING GROUP STRUCTURE TO IMPROVE RETRIEVAL ACCURACY AND SPEED IN IMAGE DATABASES**
Nuno Vasconcelos, Hewlett-Packard Cambridge Research Laboratory, United States
- MP-P7.11** **CREATING 3D SPEECH-DRIVEN TALKING HEADS: A PROBABILISTIC NETWORK APPROACH**
KyoungHo Choi, Jenq-Neng Hwang, University of Washington, United States
- MP-P7.12** **EVALUATION OF BRUSH-DRAWN "KANJI" CHARACTERS**
Yoshiko Furusho, Kouichi Hirano, Tohwa University, Japan; Kazunori Kotani, Japan Advanced Institute of Science and Technology, Japan

Tuesday, 24 September 2002

- TA-L1** **VIDEO TECHNOLOGIES FOR SET-TOP BOXES** (Special)
Time: Tuesday, 24 September 2002, 8:30 - 11:30
Place: Highland A
Chair: Krishna Ratakonda, IBM
- 8:30
TA-L1.1 **MULTI-FRAME MOTION-COMPENSATED VIDEO COMPRESSION FOR THE DIGITAL SET-TOP BOX**
Bernd Girod, Markus Flierl, Stanford University, United States
- 8:50
TA-L1.2 **ISSUES IN REDUCED-RESOLUTION DECODING OF MPEG VIDEO**
Hangu Yeo, Krishna Ratakonda, Cesar Gonzales, Jack Kouloheris, IBM T.J. Watson Research Center, United States
- 9:10
TA-L1.3 **PERSONALIZED NEWS THROUGH CONTENT AUGMENTATION AND PROFILING**
Norman Haas, Ruud Bolle, IBM T.J. Watson Research Center, United States; Nevenka Dimitrova, Angel Janevski, John Zimmerman, Philips Research, United States
- 9:30
TA-L1.4 **DISCOVERING RECURRENT EVENTS IN VIDEO USING UNSUPERVISED METHODS**
Milind Naphade, IBM T.J. Watson Research Center, United States; Thomas Huang, University of Illinois at Urbana-Champaign, United States
- 9:50
BREAK
- 10:10
TA-L1.5 **MULTIMEDIA CONTENT AUTHENTICATION: FUNDAMENTAL LIMITS**
Emin Martinian, Gregory Wornell, Massachusetts Institute of Technology, United States
- 10:30
TA-L1.6 **VIDEO SKIMS: TAXONOMIES AND AN OPTIMAL GENERATION FRAMEWORK**
Hari Sundaram, Shih-Fu Chang, Columbia University, United States
- 10:50
TA-L1.7 **ENERGY EFFICIENT WIRELESS VIDEO COMMUNICATIONS FOR THE DIGITAL SET-TOP BOX**
Yiftach Eisenberg, Carlos Luna, Thrasylvoulos Pappas, Randall Berry, Aggelos Katsaggelos, Northwestern University, United States
- 11:10
TA-L1.8 **PREDICTIVE ENCODING USING COSET CODES**
Ashish Jagmohan, Anshul Sehgal, Narendra Ahuja, University of Illinois at Urbana-Champaign, United States

Tuesday, 24 September 2002

TA-L2	SCALABLE VIDEO CODING (Lecture)
Time:	Tuesday, 24 September 2002, 8:30 - 11:30
Place:	Highland B
Chair:	M. Orchard, Rice University
8:30	
TA-L2.1	ADAPTIVE MULTIPLE REFERENCE FRAME BASED SCALABLE VIDEO CODING ALGORITHM
	Seung Hwan Kim, Seoul National University, Republic of Korea; Yong Kwan Kim, Hoseo University, Republic of Korea; Sang-Uk Lee, Seoul National University, Republic of Korea
8:50	
TA-L2.2	EFFICIENT AND UNIVERSAL SCALABLE VIDEO CODING
	Feng Wu, Shipeng Li, Microsoft Research Asia, China; Rong Yan, Beijing Institute of Technology, China; Xiaoyan Sun, Harbin Institute of Technology, China; Ya-Qin Zhang, Microsoft Research Asia, China
9:10	
TA-L2.3	ROBUST AND EFFICIENT SCALABLE VIDEO CODING WITH LEAKY PREDICTION
	Sangeun Han, Bernd Girod, Stanford University, United States
9:30	
TA-L2.4	BLOCK-BASED FINE GRANULARITY SCALABLE VIDEO CODING FOR CONTENT-AWARE STREAMING
	Yuwen He, Shiqiang Yang, Yuzhuo Zhong, Tsinghua University, China
9:50	
BREAK	
10:10	
TA-L2.5	DRIFT MANAGEMENT AND ADAPTIVE BIT RATE ALLOCATION IN SCALABLE VIDEO CODING
	Hua Yang, Rui Zhang, Kenneth Rose, University of California, Santa Barbara, United States
10:30	
TA-L2.6	THE FINE-GRAINED SCALABLE VIDEO CODING BASED ON MATCHING PURSUITS
	Jian-Liang Lin, Wen-Liang Hwang, Academia Sinica, Taiwan; Soo-Chang Pei, National Taiwan University, Taiwan
10:50	
TA-L2.7	CONDITIONAL REPLACEMENT FOR IMPROVED CODING EFFICIENCY IN FINE-GRAIN SCALABLE VIDEO CODING
	Mary Comer, Thomson multimedia Inc., United States
11:10	
TA-L2.8	ERROR DRIFTING REDUCTION IN ENHANCED FINE GRANULARITY SCALABILITY
	Wen-Hsiao Peng, Yen-Kuang Chen, Intel Corporation, Taiwan

Tuesday, 24 September 2002

TA-L3	SEGMENTATION II (Lecture)
Time:	Tuesday, 24 September 2002, 8:30 - 11:30
Place:	Highland C
Chair:	P. Doerschuk, Purdue University
8:30	
TA-L3.1	FUZZY CLUSTERING WITH SPATIAL CONSTRAINTS
	Dzung Pham, National Institute on Aging (NIH), United States
8:50	
TA-L3.2	EXTRACTION OF THE VERTEBRAL FORAMEN OF THE THIRD LUMBAR VERTEBRA WITH SNAKES
	Kazumitsu Kondo, Koichi Ogawa, Hosei University, Japan; Kiyoko Sakurai, Kitasato University, Japan
9:10	
TA-L3.3	CONSTRAST BASED COLOR SEGMENTATION WITH ADAPTIVE THRESHOLDS
	Hsin-Chia Chen, Wei-Jung Chien, Sheng-Jyh Wang, National Chiao Tung University, Taiwan
9:30	
TA-L3.4	CONSTRAINED OPTIMIZATION: A GEODESIC SNAKE APPROACH
	Xun Wang, Lei He, William Wee, University of Cincinnati, United States
9:50	
BREAK	
10:10	
TA-L3.5	VIDEO SEGMENTATION USING ACTIVE CONTOURS ON A GROUP OF PICTURES
	Muriel Gastaud, Michel Barlaud, Laboratoire I3S (CNRS/UNSA), France
10:30	
TA-L3.6	REAL-TIME VIDEO OBJECT SEGMENTATION USING HSV SPACE
	Na Li, Jiajun Bu, Chun Chen, Zhejiang University, China
10:50	
TA-L3.7	SEGMENTATION AND VISUALIZATION OF LEFT VENTRICLE IN MR CARDIAC IMAGES
	Il-hong Shin, Min-Jeong Kwon, Korea Advanced Institute of Science and Technology, Republic of Korea; Sung-Taek Chung, Medinus Company, Republic of Korea; HyunWook Park, Korea Advanced Institute of Science and Technology, Republic of Korea
11:10	
TA-L3.8	SEGMENTATION OF NON-RIGID VIDEO OBJECTS USING LONG TERM TEMPORAL CONSISTENCY
	Marc Chaumont, Stéphane Pateux, Henri Nicolas, IRISA/INRIA, France

Tuesday, 24 September 2002

TA-L4 **FACIAL RECOGNITION AND DETECTION (Lecture)**
Time: Tuesday, 24 September 2002, 8:30 - 11:30
Place: Highland D
Chair: I. Pitas, Aristotle University of Thessaloniki

8:30
TA-L4.1 **SYMMETRICAL PCA IN FACE RECOGNITION**
Qiong Yang, Xiaoqing Ding, Tsinghua University, China

8:50
TA-L4.2 **FACE RECOGNITION USING MIXTURES OF PRINCIPAL COMPONENTS**
Deepak Turaga, Philips Research, United States; Tsuhan Chen, Carnegie Mellon University, United States

9:10
TA-L4.3 **FACE RECOGNITION USING VECTOR QUANTIZATION HISTOGRAM METHOD**
Koji Kotani, Chen Qiu, Tadahiro Ohmi, Tohoku University, Japan

9:30
TA-L4.4 **BOOSTING FACE RECOGNITION ON A LARGE-SCALE DATABASE**
Juwei Lu, Konstantinos N. Plataniotis, University of Toronto, Canada

9:50
BREAK

10:10
TA-L4.5 **TOWARDS FACIAL FEATURE EXTRACTION AND VERIFICATION FOR OMNI-FACE DETECTION IN VIDEO/IMAGES**
Xingquan Zhu, Purdue University, United States; Jianping Fan, The University of North Carolina at Charlotte, United States; Ahmed K. Elmagarmid, Purdue University, United States

10:30
TA-L4.6 **FACE RECOGNITION USING EXTENDED ISOMAP**
Ming-Hsuan Yang, Honda Fundamental Research Labs, United States

10:50
TA-L4.7 **EFFICIENT FACE DETECTION WITH MULTISCALE SEQUENTIAL CLASSIFICATION**
Ying Zhu, Stuart Schwartz, Princeton University, United States

11:10
TA-L4.8 **FACE DETECTION USING THE 1ST-ORDER RCE CLASSIFIER**
Byeong Hwan Jeon, Sang Uk Lee, Seoul National University, Republic of Korea; Kyoung Mu Lee, Hongik University, Republic of Korea

Tuesday, 24 September 2002

TA-L5 **WATERMARKING I (Lecture)**
Time: Tuesday, 24 September 2002, 8:30 - 11:30
Place: Highland E
Chair: T. Kalker, Philips Research

8:30
TA-L5.1 **DIRTY-PAPER TRELIS CODES FOR WATERMARKING**
Matthew Miller, NEC Research Institute, United States; Gwenaël Doërr, Eurécom Institute, France; Ingemar Cox, NEC Research Institute, United States

8:50
TA-L5.2 **ROBUST TURBO-BASED DATA HIDING FOR IMAGE AND VIDEO SOURCES**
Jim Chou, Kannan Ramchandran, University of California, Berkeley, United States

9:10
TA-L5.3 **INFORMATION EMBEDDING CODES MATCHED TO LOCALLY STATIONARY GAUSSIAN IMAGE MODELS**
M. Kivanaç Mihçak, Microsoft Research, United States; Pierre Moulin, University of Illinois at Urbana-Champaign, United States

9:30
TA-L5.4 **ROBUST BANDLIMITED WATERMARKING WITH TRELIS CODED MODULATION**
Vimal Thilak, Aria Nosratinia, The University of Texas, Dallas, United States

9:50
BREAK

10:10
TA-L5.5 **VIDEO WATERMARKING SCHEME RESISTANT TO GEOMETRIC ATTACKS**
Yao Zhao, Reginald L. Lagendijk, Delft University of Technology, Netherlands

10:30
TA-L5.6 **ANTI-COLLUSION CODES: MULTI-USER AND MULTIMEDIA PERSPECTIVES**
Wade Trappe, Min Wu, K.J. Ray Liu, University of Maryland, United States

10:50
TA-L5.7 **JANIS: JUST ANOTHER N-ORDER SIDE-INFORMED SCHEME**
Teddy Furon, B. Macq, Université Catholique de Louvain, France; Neil Hurley, Guénolé Silvestre, University College of Dublin, Ireland

11:10
TA-L5.8 **REVERSIBLE DATA HIDING**
Mehmet Celik, University of Rochester, United States; Gaurav Sharma, Xerox Corporation, United States; A. Murat Tekalp, Koc University, Turkey / University of Rochester, United States; Eli Saber, Xerox Corporation, United States

Tuesday, 24 September 2002

TA-P1	IMAGE AND VIDEO TRANSMISSION OVER NETWORKS (Poster) Time: Tuesday, 24 September 2002, 8:30 - 11:30 Place: Empire Hall North Area 1 Chair: J. Apostolopoulos, Hewlett-Packard Laboratories
TA-P1.1	A JOINT SOURCE AND CHANNEL CODING APPROACH FOR PROGRESSIVELY COMPRESSED 3-D MESH TRANSMISSION Ghassan Al-Regib, Yücel Altunbasak, Jarek Rossignac, Georgia Institute of Technology, United States
TA-P1.2	PACKET LOSS PROTECTION OF EMBEDDED DATA WITH FAST LOCAL SEARCH Vladimir Stankovic, University of Leipzig, Germany; Raouf Hamzaoui, University of Konstanz, Germany; Zixiang Xiong, Texas A&M University, United States
TA-P1.3	PROGRESSIVE VIDEO TRANSMISSION FOR PACKET LOSSY CHANNELS EXPLOITING FEEDBACK AND UNEQUAL ERASURE PROTECTION Thomas Stockhammer, Munich University of Technology, Germany
TA-P1.4	OPTIMIZED TRANSMISSION OF H.26L/JVT CODED VIDEO OVER PACKET-LOSSY NETWORKS Thomas Stockhammer, Munich University of Technology, Germany; Thomas Wiegand, Heinrich-Hertz-Institute, Germany; Stephan Wenger, Technical University Berlin, Germany
TA-P1.5	ANALYSIS OF PACKET HEADER EFFECTS IN RATE ALLOCATION FOR PACKET VIDEO Bo Hong, Aria Nosratinia, The University of Texas, Dallas, United States
TA-P1.6	LOW-LATENCY VIDEO TRANSMISSION OVER LOSSY PACKET NETWORKS USING RATE-DISTORTION OPTIMIZED REFERENCE PICTURE SELECTION Yi Liang, Markus Flierl, Bernd Girod, Stanford University, United States
9:50 BREAK 10:10	
TA-P1.7	ANALYSIS AND IMPROVEMENT OF MULTIPLE DESCRIPTION MOTION COMPENSATION VIDEO CODING FOR LOSSY PACKET NETWORKS Shunan Lin, Yao Wang, Polytechnic University, United States
TA-P1.8	PERFORMANCE OF A MULTIPLE DESCRIPTION STREAMING MEDIA CONTENT DELIVERY NETWORK John Apostolopoulos, Wai-tian Tan, Susie Wee, Hewlett-Packard Laboratories, United States
TA-P1.9	CONCATENATED MULTIPLE DESCRIPTION CODING OF FRAME-RATE SCALABLE VIDEO Ivan V. Bajic, John Woods, Rensselaer Polytechnic Institute, United States
TA-P1.10	CHANNEL ADAPTED MULTIPLE DESCRIPTION CODING SCHEME USING WAVELET TRANSFORM Manuela Pereira, Marc Antonini, Michel Barlaud, University of Nice-Sophia Antipolis, France
TA-P1.11	OPTIMAL MULTI-CONTENT VIDEO DECOMPOSITION FOR EFFICIENT VIDEO TRANSMISSION OVER LOW-BANDWIDTH NETWORKS Anastasios Doulamis, Nikolaos Doulamis, National Technical University of Athens, Greece
TA-P1.12	EFFECTS OF CHANNEL DELAYS ON UNDERFLOW EVENTS OF COMPRESSED VIDEO OVER THE INTERNET Dmitri Loguinov, City University of New York, United States; Hayder Radha, Michigan State University, United States

Tuesday, 24 September 2002

TA-P2	STEREOSCOPIC AND 3D CODING (Poster) Time: Tuesday, 24 September 2002, 8:30 - 11:30 Place: Empire Hall North Area 2 Chair: J.-L. Dugelay, Institut EURECOM
TA-P2.1	AN OMNIDIRECTIONAL STEREOSCOPIC SENSOR : SPHERICAL COLOR IMAGE ACQUISITION Olivier Romain, Thomas Ea, Claude Gstaad, Patrick Garda, L.I.S.I.F, France
TA-P2.2	PROGRESSIVE CODING OF STEREO IMAGES USING WAVELETS AND OVERLAPPING BLOCKS Torsten Palfner, Alexander Mali, Erika Müller, University of Rostock, Germany
TA-P2.3	RESIDUAL IMAGE CODING FOR STEREO IMAGE COMPRESSION Tamás Frajka, Kenneth Zeger, University of California, San Diego, United States
TA-P2.4	THE APPLICATION OF NONLINEAR FILTER BANKS TO EFFICIENT RENDERING AND PROGRESSIVE TRANSMISSION OF LIGHT FIELDS King-To Ng, Shing-Chow Chan, The University of Hong Kong, Hong Kong SAR of China; Heung-Yeung Shum, Microsoft Research Asia, China
TA-P2.5	GEOMETRY REFINEMENT FOR LIGHT FIELD COMPRESSION Prashant Ramanathan, Eckehard Steinbach, Peter Eisert, Bernd Girod, Stanford University, United States
TA-P2.6	THEORETICAL ANALYSIS OF GEOMETRY INACCURACY FOR LIGHT FIELD COMPRESSION Prashant Ramanathan, Bernd Girod, Stanford University, United States
9:50 BREAK 10:10	
TA-P2.7	PROGRESSIVE MESH COMPRESSION USING COSINE INDEX PREDICTOR AND 2-STAGE GEOMETRY PREDICTOR Sung-Bum Park, Chang-Su Kim, Sang-Uk Lee, Seoul National University, Republic of Korea
TA-P2.8	MESH-BASED DEPTH MAP COMPRESSION AND TRANSMISSION FOR REAL-TIME VIEW-BASED RENDERING Bing-Bing Chai, Sriram Sethuraman, Paul Hatrack, Sarnoff Corporation, United States
TA-P2.9	POLYGONAL MESH DATA COMPRESSION BASED ON TRIANGULAR LATTICE STRUCTURING AND WAVELET TRANSFORM Shinichi Hirata, Minoru Tsunoda, Koichi Fukuda, Akira Kawanaka, Sophia University, Japan
TA-P2.10	MULTIRESOLUTION 3D MESH COMPRESSION Frédéric Payan, Marc Antonini, CNRS and University of Nice-Sophia Antipolis, France
TA-P2.11	SCALABLE COMPRESSION OF VOLUMETRIC IMAGES David Taubman, Raymond Leung, Andrew Secker, The University of New South Wales, Australia
TA-P2.12	FIELD-BASED STEREOSCOPIC VIDEO CODEC FOR MULTIPLE DISPLAY METHODS Yunjung Choi, Sukhee Cho, Jinhwan Lee, Chietuek Ahn, Electronics and Communications Research Institute, Democratic People's Republic of Korea

Tuesday, 24 September 2002

- TA-P3** **MOTION DETECTION & ESTIMATION II (Poster)**
Time: Tuesday, 24 September 2002, 8:30 - 11:30
Place: Empire Hall North Area 3
Chair: A. Katsaggelos, Northwestern University
- TA-P3.1** **MULTI-RESOLUTIONAL OPTICAL FLOW ESTIMATION WITH LOCAL OPTIMIZATION**
Eisuke Adachi, Susumu Horiguchi, Japan Advanced Institute of Science and Technology, Japan
- TA-P3.2** **LOW COMPLEXITY MOTION ESTIMATION ALGORITHM BY MULTIREOLUTION SEARCH FOR LONG-TERM MEMORY MOTION COMPENSATION**
Hyukjune Chung, University of Southern California, United States; Antonio Ortega, University of Southern California, United States
- TA-P3.3** **SPATIAL/JOINT SPACE-TIME MOTION SEGMENTATION OF IMAGE SEQUENCES BY LEVEL SET PURSUIT**
Abdol-Reza Mansouri, Amar Mitiche, INRS-Télécommunications, Canada
- TA-P3.4** **MOTION ESTIMATION WITH A DYNAMIC PROGRAMMING OPTIMIZATION OPERATOR**
Mikhail Mozerov, Kwangju Institute of Science and Technology, Republic of Korea; Vitaly Kober, CICESE, Mexico; Tae-Sun Choi, Kwangju Institute of Science and Technology, Republic of Korea
- TA-P3.5** **GLOBAL MOTION ESTIMATION FROM SEMI-DYNAMIC VIDEO USING MOTION SENSORS**
Ramazan Aygün, Aidong Zhang, State University of New York at Buffalo, United States
- TA-P3.6** **CONFIDENCE MEASURES FOR BLOCK MATCHING MOTION ESTIMATION**
Ioannis Patras, University of Amsterdam, Netherlands; Emile A. Hendriks, Reginald L. Lagendijk, Delft University of Technology, Netherlands
- 9:50
BREAK
10:10
- TA-P3.7** **INTERPRETATION OF UNIFORM TRANSLATIONAL IMAGE MOTION: DCT VERSUS FT**
Janusz Konrad, Nikola Bozinovic, Boston University, United States
- TA-P3.8** **IMPROVED GLOBAL MOTION ESTIMATION USING PREDICTION AND EARLY TERMINATION**
Wing Cheong Chan, Oscar C. Au, Ming Fai Fu, Hong Kong University of Science and Technology, Hong Kong SAR of China
- TA-P3.9** **ESTIMATING OPTICAL FLOW USING A GLOBAL MATCHING FORMULATION AND GRADUATED OPTIMIZATION**
Ming Ye, University of Washington, United States; Robert Haralick, City University of New York, United States; Linda Shapiro, University of Washington, United States
- TA-P3.10** **EFFICIENT SELECTION OF IMAGE PATCHES WITH HIGH MOTION CONFIDENCE**
Peter Sand, Leonard McMillan, Massachusetts Institute of Technology, United States
- TA-P3.11** **FAST GLOBAL MOTION ESTIMATION ALGORITHM BASED ON ELEMENTARY MOTION DETECTORS**
Eiji Nakamura, Masahiro Ichimura, Katsutoshi Sawada, Aichi Institute of Technology, Japan
- TA-P3.12** **ACCURATE OPTICAL FLOW ESTIMATION USING ADAPTIVE SCALE-SPACE AND 3D STRUCTURE TENSOR**
Hai-Yun Wang, Kai-Kuang Ma, Nanyang Technological University, Singapore

Tuesday, 24 September 2002

- TA-P4** **IMAGE PROCESSING (Poster)**
Time: Tuesday, 24 September 2002, 8:30 - 11:30
Place: Empire Hall North Area 4
Chair: H. Maitre, Ecole Nationale Supérieure des Télécommunications
- TA-P4.1** **A SCHEME FOR RECONSTRUCTING FACE FROM SHADING USING SMOOTH PROJECTED POLYGON REPRESENTATION NN**
Mohamad Ivan Fanany, Masayoshi Ohno, Itsuo Kumazawa, Tokyo Institute of Technology, Japan
- TA-P4.2** **INFORMATION THEORY-BASED ANALYSIS OF PARTIAL AND TOTAL OCCLUSION IN OBJECT TRACKING**
Evangelos Loutas, Christophoros Nikou, Ioannis Pitas, University of Thessaloniki, Greece
- TA-P4.3** **ADAPTIVE TEMPORAL INTERPOLATION USING BIDIRECTIONAL MOTION ESTIMATION AND COMPENSATION**
Tao Chen, Sarnoff Corporation, United States
- TA-P4.4** **REAL-TIME AUTONOMOUS VIDEO ENHANCEMENT SYSTEM (RAVE)**
Vitaly Ablavsky, Magnús Snorrason, C.J. Taylor, Charles River Analytics, United States
- TA-P4.5** **REGION LEVEL SEGMENTATION BASED ON A DERIVATIVE APPROACH FOR VIDEO TRACKING PROCESS**
David Izquierdo, Yannick Berthoumieu, IXL-ENSEIRB, France
- TA-P4.6** **INTERACTIVE MODIFICATIONS OF VIDEO OBJECT TRAJECTORIES IN NATURAL VIDEO SEQUENCES FOR POST-PRODUCTION APPLICATIONS**
Henri Nicolas, Franck Denoual, IRISA/INRIA, France
- 9:50
BREAK
10:10
- TA-P4.7** **ESTIMATION OF CAMERA PLANAR MOTION FROM BLURRED IMAGES**
Barbara Zitová, Jan Flusser, Academy of Sciences of the Czech Republic, Czech Republic
- TA-P4.8** **ANALYSIS OF BRANCHING TUBULAR STRUCTURES IN 3D DIGITAL IMAGES**
Atilla Kiraly, William Higgins, Penn State University, United States
- TA-P4.9** **FACE RECOGNITION USING FEATURE EXTRACTION BASED ON INDEPENDENT COMPONENT ANALYSIS**
Nojun Kwak, Chong-Ho Choi, Seoul National University, Republic of Korea; Narendra Ahuja, University of Illinois at Urbana-Champaign, United States
- TA-P4.10** **EFFICIENT MORPHOLOGICAL SHAPE REPRESENTATION BY VARYING OVERLAPPING LEVELS BETWEEN REPRESENTATIVE DISKS**
Jianing Xu, Rowan University, United States
- TA-P4.11** **TWO CHANNELS FUZZY C-MEANS DETECTION OF MULTIPLE SCLEROSIS LESIONS IN MULTISPECTRAL MR IMAGES**
Edoardo Ardizzone, Roberto Pirrone, Orazio Gambino, Daniele Peri, University of Palermo, Italy
- TA-P4.12** **WINNER TAKE ALL IN A LARGE ARRAY OF OPTO-FEEDBACK CIRCUITS FOR IMAGE PROCESSING**
Adrienne Raglin, Mikhail Vorontsov, Army Research Laboratory, United States; Mohamed Chouikha, Howard University, United States

Tuesday, 24 September 2002

- TA-P5** **COLOR AND MULTISPECTRAL PROCESSING** (Poster)
Time: Tuesday, 24 September 2002, 8:30 - 11:30
Place: Empire Hall North Area 5
Chair: M. Vrhel, ViewAhead Technologies
- TA-P5.1** **COLOR IMAGE COMPRESSION USING INTER-COLOR CORRELATION**
Larisa Goffman-Vinopal, Moshe Porat, Technion - Israel Institute of Technology, Israel
- TA-P5.2** **A KERNEL BASED NONLINEAR SUBSPACE PROJECTION METHOD FOR REDUCTION OF HYPERSPECTRAL IMAGE DIMENSIONALITY**
Yanfeng Gu, Ye Zhang, Junping Zhang, Harbin Institute of Technology, China
- TA-P5.3** **VECTOR ZONE PLATES AS TEST PATTERNS FOR LINEAR VECTOR FILTERS**
Stephen Sangwine, University of Essex, United Kingdom; Todd A. Ell, United States
- TA-P5.4** **A WINDOW-BASED COLOR QUANTIZATION TECHNIQUE AND ITS EMBEDDED IMPLEMENTATION**
Antonios Atsalakis, Nikolas Kroupis, Dimitrios Soudris, Nikolaos Papamarkos, Democritus University of Thrace, Greece
- TA-P5.5** **IMAGE REGISTRATION IN MULTISPECTRAL DATA SETS**
Hani Mahdi, Aly Farag, University of Louisville, United States
- TA-P5.6** **A NEW METHOD FOR DENOISING COLOR IMAGES**
Luca Lucchese, Oregon State University, United States; Sanjit Mitra, University of California, Santa Barbara, United States
- 9:50
BREAK
10:10
- TA-P5.7** **ON THE ROBUSTNESS OF COLOR POINTS OF INTEREST FOR IMAGE RETRIEVAL**
Valérie Gouet, Nozha Boujemaa, INRIA, France
- TA-P5.8** **IMPROVED TRANSFORMS FOR THE COMPRESSION OF COLOR AND MULTISPECTRAL IMAGES**
Ricardo De Queiroz, Xerox Corporation, United States
- TA-P5.9** **COLOR-GRAYSCALE IMAGE REGISTRATION USING HYPERCOMPLEX PHASE CORRELATION**
Eddie Moxey, Stephen Sangwine, Department of Electronic Systems Engineering, United Kingdom; Todd A. Ell, United States
- TA-P5.10** **AN OBJECTIVE PERFORMANCE EVALUATION TOOL FOR COLOR BASED IMAGE RETRIEVAL SYSTEMS**
Khalid Idrissi, Julien Ricard, Atilla Baskurt, Université Claude Bernard, France
- TA-P5.11** **PRACTICAL EXTENSION TO CIELUV COLOR SPACE TO IMPROVE UNIFORMITY**
Seishi Takamura, Naoki Kobayashi, NTT Corporation, Japan

Tuesday, 24 September 2002

- TA-P6** **VIDEO SEGMENTATION AND INDEXING** (Poster)
Time: Tuesday, 24 September 2002, 8:30 - 11:30
Place: Empire Hall North Area 6
Chair: R. Safranek, Benevue Inc
- TA-P6.1** **EFFICIENT VIDEO TEXT RECOGNITION USING MULTIPLE FRAME INTEGRATION**
Xian-Sheng Hua, Microsoft Research Asia, China; Pei Yin, Tsinghua University, China; Hong-Jiang Zhang, Microsoft Research Asia, China
- TA-P6.2** **MULTIDIMENSIONAL COMPARISON OF SHOT DETECTION ALGORITHMS**
Jesús Bescós, Guillermo Cisneros, José M. Menéndez, Universidad Politécnica de Madrid, Spain
- TA-P6.3** **NATURAL INTERACTION SYNTHESIZING IN VIRTUAL TELECONFERENCING**
Lifeng Sun, Yuzhuo Zhong, Tsinghua University, China; Zhun Zhong, Philips Research USA, United States
- TA-P6.4** **REAL TIME TEMPORAL SEGMENTATION OF MPEG VIDEO**
Jesús Bescós, Almudena Movilla, José M. Menéndez, Guillermo Cisneros, Universidad Politécnica de Madrid, Spain
- TA-P6.5** **ROBUST IDENTIFICATION OF GRADUAL SHOT-TRANSITION TYPES**
Ankush Mittal, Loong-Fah Cheong, Leung Tung Sing, National University of Singapore, Singapore
- TA-P6.6** **VIDEO OBJECT ARTICULATION USING DEPTH-BASED CONTENT SEGMENTATION APPROACHES**
Klimis Ntalianis, Nikolaos Doulamis, Anastasios Doulamis, Stefanos Kollias, National Technical University of Athens, Greece
- 9:50
BREAK
10:10
- TA-P6.7** **SCENE CHANGE DETECTION USING DCT COEFFICIENTS**
Oliver Bao, The University of Sydney, Australia; Ling Guan, Ryerson Polytechnic University, Canada
- TA-P6.8** **ANALYSIS-BY-SYNTHESIS DISSOLVE DETECTION**
Michele Covell, Subutai Ahmad, YesVideo, United States
- TA-P6.9** **PARSING VIDEO PROGRAMS INTO INDIVIDUAL SEGMENTS USING FSA MODELING**
Ankush Mittal, Loong-Fah Cheong, Asuthosh Nair, National University of Singapore, Singapore
- TA-P6.10** **ROBUST VIDEO TEXT SEGMENTATION AND RECOGNITION WITH MULTIPLE HYPOTHESES**
Jean-Marc Odobez, Datong Chen, Dalle Molle Institute for Perceptual Artificial Intelligence (IDIAP), Switzerland
- TA-P6.11** **VIDEO TEXTURE INDEXING USING SPATIO-TEMPORAL WAVELETS**
John Smith, Ching-Yung Lin, Milind Naphade, IBM T.J. Watson Research Center, United States

Tuesday, 24 September 2002

- TA-P7** **RECONSTRUCTION TECHNIQUES AND ANALYSIS (Poster)**
Time: Tuesday, 24 September 2002, 8:30 - 11:30
Place: Empire Hall North Area 7
Chair: A. Bovik, University of Texas at Austin
- TA-P7.1** **AN EXPERIMENTAL STUDY OF A NEW ENTROPY-BASED SAR AUTOFOCUS TECHNIQUE**
Robert Morrison, David Munson, University Of Illinois at Urbana-Champaign, United States
- TA-P7.2** **IMAGE RECONSTRUCTION USING DIVERGENT BEAMS DISTRIBUTED OVER LIMITED ANGLE**
Harold Ivan Angulo Bustos, Hae Yong Kim, Universidade de Sao Paulo, Brazil; Ricardo T. Lopes, Universidade Federal Rio de Janeiro, Brazil
- TA-P7.3** **A FAST BACK-PROJECTION ALGORITHM FOR BISTATIC SAR IMAGING**
Yu Ding, David Munson, University of Illinois at Urbana-Champaign, United States
- TA-P7.4** **COMPLEXITY REGULARIZED SHAPE ESTIMATION FROM NOISY FOURIER DATA**
Natalia Schmid, Yoram Bresler, Pierre Moulin, University of Illinois at Urbana-Champaign, United States
- TA-P7.5** **ADAPTIVE DIFFERENCE OF GAUSSIANS TO IMPROVE SUBSURFACE OBJECT DETECTION USING GPR IMAGERY**
Xiaoyin Xu, Eric Miller, Northeastern University, United States
- TA-P7.6** **FUSION OF X RAY RADIOGRAPHIC DATA AND ANATOMICAL DATA IN COMPUTED TOMOGRAPHY**
Ali Mohammad-Djafari, CNRS, France
- 9:50
BREAK
10:10
- TA-P7.7** **ADAPTIVE NOISE ATTENUATION OF SEISMIC IMAGE USING SINGULAR VALUE DECOMPOSITION AND TEXTURE DIRECTION DETECTION**
Wenkai Lu, Tsinghua University, China
- TA-P7.8** **IMAGE FORMATION MODEL OF A 3-D TRANSLUCENT OBJECT OBSERVED IN LIGHT MICROSCOPY**
Nicolas Dey, Alain Boucher, Monique Thonnat, INRIA, France
- TA-P7.9** **CRAMER-RAO BOUNDS FOR PARAMETRIC SHAPE ESTIMATION IN INVERSE PROBLEMS**
Jong Chul Ye, Yoram Bresler, Pierre Moulin, University of Illinois at Urbana-Champaign, United States
- TA-P7.10** **RECOVERING HEIGHT INFORMATION FROM SAR IMAGES OF TERRAIN**
Adrian Bors, Edwin Hancock, The University of York, United Kingdom
- TA-P7.11** **EDGE-PRESERVING IMAGE RECONSTRUCTION FOR COHERENT IMAGING APPLICATIONS**
Mujdat Cetin, Massachusetts Institute of Technology, United States; William Karl, Boston University, United States; Alan Willsky, Massachusetts Institute of Technology, United States

Tuesday, 24 September 2002

- TP-L1** **THE EMERGING JVT/H.26L VIDEO CODING STANDARD (Special)**
Time: Tuesday, 24 September 2002, 14:20 - 17:20
Place: Highland A
Chairs: Gary Sullivan, Microsoft Corp.
Thomas Wiegand, Heinrich-Hertz-Institute
- 14:20
TP-L1.1 **H.26L/JVT CODING NETWORK ABSTRACTION LAYER AND IP-BASED TRANSPORT**
Thomas Stockhammer, Munich University of Technology, Germany; Miska Hannuksela, Nokia Corporation, Finland; Stephan Wenger, Technical University Berlin, Germany
- 14:40
TP-L1.2 **LOW-COMPLEXITY TRANSFORM AND QUANTIZATION WITH 16-BIT ARITHMETIC FOR H.26L**
Henrique Malvar, Microsoft Research, United States; Antti Hallapuro, Marta Karczewicz, Nokia Research Center, Finland; Louis Kerofsky, Sharp Laboratories of America, United States
- 15:00
TP-L1.3 **A FLEXIBLE DECODER BUFFER MODEL FOR JVT VIDEO CODING**
Jordi Ribas-Corbera, Philip Chou, Shankar Regunathan, Microsoft Corporation, United States
- 15:20
TP-L1.4 **SYNCHRONIZATION-PREDICTIVE CODING FOR VIDEO COMPRESSION: THE SP FRAMES DESIGN FOR JVT/H.26L**
Ragip Kurçeren, Marta Karczewicz, Nokia Research Center, United States
- 15:40
BREAK
- 16:00
TP-L1.5 **PERFORMANCE COMPARISON OF VIDEO CODING STANDARDS USING LAGRANGIAN CODER CONTROL**
Anthony Joch, Faouzi Kossentini, University of British Columbia, Canada; Heiko Schwarz, Thomas Wiegand, Heinrich-Hertz-Institute, Germany; Gary Sullivan, Microsoft Corporation, United States
- 16:20
TP-L1.6 **CODING OF FADED SCENE TRANSITIONS**
Dong Tian, Tampere University of Technology, Finland; Miska Hannuksela, Nokia Mobile Software, Finland; Ye-Kui Wang, Moncef Gabbouj, Tampere University of Technology, Finland
- 16:40
TP-L1.7 **ADAPTIVE INTERPOLATION FILTER FOR MOTION COMPENSATED PREDICTION**
Thomas Wedi, University of Hannover, Germany
- 17:00
TP-L1.8 **CONTEXT-BASED ADAPTIVE BINARY ARITHMETIC CODING IN JVT/H.26L**
Detlev Marpe, Heiko Schwarz, Gabi Blättermann, Guido Heising, Thomas Wiegand, Heinrich-Hertz-Institute, Germany

Tuesday, 24 September 2002

- TP-L2** **STEREOSCOPIC & 3-D PROCESSING I (Lecture)**
Time: Tuesday, 24 September 2002, 14:20 - 17:20
Place: Highland B
Chair: J. Konrad, Boston University
- 14:20
TP-L2.1 **LARGE-SCALE SCENE RECONSTRUCTION USING PERISCOPEIC STEREO**
Eddie Moxey, Peter D. Noakes, Adrian F. Clark, The University of Essex, United Kingdom
- 14:40
TP-L2.2 **A FOVEAL ARCHITECTURE FOR STEREO MATCHING**
Alfredo Restrepo Palacios, Javier Villegas Plazas, Universidad de los Andes, Colombia
- 15:00
TP-L2.3 **PARTIAL INTEGRABILITY IN SURFACE RECONSTRUCTION FROM A GIVEN GRADIENT FIELD**
Bilge Karaçalı, Wesley Snyder, North Carolina State University, United States
- 15:20
TP-L2.4 **MULTI-VIEW REPRESENTATION AND SYNTHESIS FOR 3D OBJECT MOVIE**
Wen-Nung Lie, Bo-Er Wei, National Chung Cheng University, Taiwan
- 15:40
BREAK
- 16:00
TP-L2.5 **AUTOMATIC 3D MODEL RECONSTRUCTION USING VOXEL CODING AND POSE INTEGRATION**
Soon-Yong Park, Murali Subbarao, State University of New York at Stony Brook, United States
- 16:20
TP-L2.6 **THREE DIMENSIONAL MODELING OF LARGE-SCALE REAL ENVIRONMENT BY FUSING RANGE DATA, TEXTURE IMAGES, AND AIRBORNE ALTIMETRY DATA**
Hiroyuki Shimizu, Conny Riani Gunadi, Kazuya Kodama, Kiyoharu Aizawa, The University of Tokyo, Japan
- 16:40
TP-L2.7 **A HIERARCHICAL METHOD OF MAP-BASED STOCHASTIC DIFFUSION AND DISPARITY ESTIMATION**
Sang Hwa Lee, Seoul National University, Republic of Korea; Yasuaki Kanatsugu, NHK Engineering Services, Japan; Jong-Il Park, Hanyang University, Republic of Korea
- 17:00
TP-L2.8 **MULTI-RESOLUTION SPACE CARVING USING LEVEL SET METHODS**
Gregory G. Slabaugh, Ronald W. Schafer, Georgia Institute of Technology, United States; Mat C. Hans, Hewlett-Packard Laboratories, United States

Tuesday, 24 September 2002

- TP-L3** **COMPUTER VISION II (Lecture)**
Time: Tuesday, 24 September 2002, 14:20 - 17:20
Place: Highland C
Chair: K. Aizawa, University of Tokyo
- 14:20
TP-L3.1 **A BAYESIAN IMAGE ANALYSIS FRAMEWORK FOR POST PLACEMENT QUALITY INSPECTION OF COMPONENTS**
Stefanos Goumas, George Rovithakis, Michalis Zervakis, Technical University of Crete, Greece
- 14:40
TP-L3.2 **LAMBERTIAN REFLECTANCE CORRECTION FOR ROUGH AND SHINY SURFACES**
Hossein Ragheb, Edwin Hancock, The University of York, United Kingdom
- 15:00
TP-L3.3 **A PSEUDO LINEARIZATION METHOD FOR ACCURATE POSE ESTIMATION FROM A SINGLE IMAGE**
Yonghuai Liu, Horst Holstein, The University of Wales, Aberystwyth, United Kingdom
- 15:20
TP-L3.4 **HMM-BASED SURFACE RECONSTRUCTION FROM SINGLE IMAGES**
Takayuki Nagai, The University of Electro-Communications, Japan; Tadashi Naruse, Masaaki Ikehara, Keio University, Japan; Akira Kurematsu, The University of Electro-Communications, Japan
- 15:40
BREAK
- 16:00
TP-L3.5 **ROLE OF SCALE IN PARTITIONING SHAPE**
Raghavan Dhandapani, Benjamin Kimia, Brown University, United States
- 16:20
TP-L3.6 **A GRAPH SPECTRAL APPROACH TO SHAPE-FROM-SHADING**
Antonio Robles-Kelly, Edwin Hancock, The University of York, United Kingdom
- 16:40
TP-L3.7 **NEW PERSPECTIVES ON CAMERA CALIBRATION USING GEOMETRIC ALGEBRA**
Claudio Defferara, Fabio Negroni, Augusto Sarti, Stefano Tubaro, Politecnico di Milano, Italy
- 17:00
TP-L3.8 **SHAPE-FROM-SHADING USING VIEWPOINT-INVARIANT PRINCIPAL CURVATURES**
Hossein Ragheb, Edwin Hancock, The University of York, United Kingdom

Tuesday, 24 September 2002

TP-L4 **IMAGE RETRIEVAL** (Lecture)
Time: Tuesday, 24 September 2002, 14:20 - 17:20
Place: Highland D
Chair: B. S. Manjunath, University of California at Santa Barbara

14:20
TP-L4.1 **A FEATURE RE-WEIGHTING APPROACH FOR RELEVANCE FEEDBACK IN IMAGE RETRIEVAL**
Yimin Wu, Aidong Zhang, State University of New York at Buffalo, United States

14:40
TP-L4.2 **CONTENT BASED IMAGE RETRIEVAL: RELATED ISSUES USING EULER VECTOR**
Arijit Bishnu, Piyush K. Bhunre, Bhargab B. Bhattacharya, Malay K. Kundu, C. A. Murthy, Indian Statistical Institute, India; Tinku Acharya, Intel Corporation, United States

15:00
TP-L4.3 **SEGMENTATION AND HISTOGRAM GENERATION USING THE HSV COLOR SPACE FOR IMAGE RETRIEVAL**
Shamik Sural, Gang Qian, Sakti Pramanik, Michigan State University, United States

15:20
TP-L4.4 **HIERARCHICAL IMAGE DATABASE BROWSING ENVIRONMENT WITH EMBEDDED RELEVANCE FEEDBACK**
Thomas Meiers, Thomas Sikora, Ivo Keller, Heinrich-Hertz-Institute, Germany

15:40
BREAK

16:00
TP-L4.5 **DPF — A PERCEPTUAL DISTANCE FUNCTION FOR IMAGE RETRIEVAL**
Beitao Li, Edward Chang, Ching-Tung Wu, University of California, Santa Barbara, United States

16:20
TP-L4.6 **MINIMIZING USER INTERACTION BY AUTOMATIC AND SEMI-AUTOMATIC RELEVANCE FEEDBACK FOR IMAGE RETRIEVAL**
Paisarn Muneesawang, The University of Sydney, Canada; Ling Guan, Ryerson University, Canada

16:40
TP-L4.7 **FACE RETRIEVAL USING 1ST- AND 2ND-ORDER PCA MIXTURE MODEL**
Hyun-Chul Kim, Daijin Kim, Sung Yang Bang, POSTECH, Republic of Korea

17:00
TP-L4.8 **REGION-BASED RETRIEVAL: COARSE SEGMENTATION WITH FINE COLOR SIGNATURE**
Julien Fauqueur, Nozha Boujemaa, INRIA, France

Tuesday, 24 September 2002

TP-L5 **TOMOGRAPHIC IMAGING** (Lecture)
Time: Tuesday, 24 September 2002, 14:20 - 17:20
Place: Highland E
Chair: W. C. Karl, Boston University

14:20
TP-L5.1 **EXTRACTION OF MULTIPLE-BOUNCE ARTIFACTS IN TOMOGRAPHIC IMAGING**
David Garren, Scott Goldstein, Science Applications International Corporation, United States

14:40
TP-L5.2 **3-D MAXIMUM LIKELIHOOD RECONSTRUCTIONS OF VIRUSES FROM CRYO ELECTRON MICROSCOPE IMAGES AND PARALLEL COMPUTATION**
Yili Zheng, Zhye Yin, Peter Doerschuk, Purdue University, United States

15:00
TP-L5.3 **CONTENT-ADAPTIVE MESH MODELING FOR FULLY-3D TOMOGRAPHIC IMAGE RECONSTRUCTION**
Yongyi Yang, Jovan Brankov, Miles Wernick, Illinois Institute of Technology, United States

15:20
TP-L5.4 **ON THE EXTENSION OF LEVEL-SET CURVE EVOLUTION METHODS FOR LOW-SENSITIVITY IMAGING PROBLEMS**
Mohamed Khames Ben Hadj Miled, Northeastern University, United States; Eric Miller, Northeastern University, United States

15:40
BREAK

16:00
TP-L5.5 **DYNAMIC TOMOGRAPHY USING CURVE EVOLUTION WITH SPATIAL-TEMPORAL REGULARIZATION**
Yonggang Shi, William Karl, David Castañon, Boston University, United States

16:20
TP-L5.6 **ADJOINT FIELD METHODS FOR NON-LINEAR TOMOGRAPHIC MEDICAL IMAGING PROBLEMS**
Gregory Boverman, Eric Miller, Northeastern University, United States

16:40
TP-L5.7 **A HYBRID HARDWARE ACCELERATED APPROACH FOR TOMOGRAPHIC RECONSTRUCTION**
Joshua Temkin, John Schmiederer, GE Global Research, United States

Tuesday, 24 September 2002

TP-P1	IMAGE COMPRESSION I (Poster) Time: Tuesday, 24 September 2002, 14:20 - 17:20 Place: Empire Hall North Area 1 Chair: C. Christopoulos, Ericsson Research
TP-P1.1	IMAGE COMPRESSION USING LATTICE VECTOR QUANTIZATION WITH CODE BOOK SHAPE ADAPTED THRESHOLDING Teddy Voinson, Ludovic Guillemot, Jean-Marie Moureaux, CNRS and University HP, Nancy 1, France
TP-P1.2	FRACTAL IMAGE COMPRESSION USING MNLPC, MIC AND H-MPC NETWORK LIBRARY Baoguo Xie, Robert Dony, University of Guelph, Canada
TP-P1.3	STRIPE-BASED MSE CONTROL IN IMAGE CODING Christophe Parisot, Marc Antonini, Michel Barlaud, Laboratoire I3S (CNRS/UNSA), France
TP-P1.4	EFFICIENT CODING OF COMPUTER GENERATED IMAGES WITH ACCEPTABLE PICTURE QUALITY Fumitaka Ono, Tokyo Institute of Polytechnics, Japan; Ikuro Ueno, Toshiyuki Takahashi, Takayoshi Semasa, Mitsubishi Electric Corporation, Japan
TP-P1.5	CODING BY SELECTIVE PREDICTION: A NEW SCHEME FOR PREDICTIVE VECTOR QUANTIZATION Kevin Holt, David Neuhoff, University of Michigan, United States
TP-P1.6	STEREO IMAGE CODING USING MULTISCALE RECURRENT PATTERNS Maria Duarte, Universidade Federal do Rio de Janeiro, Brazil; Murilo Carvalho, Universidade Federal Fluminense, Brazil; Eduardo da Silva, Universidade Federal do Rio de Janeiro, Brazil; Carla Pagliari, Instituto Militar de Engenharia, Brazil; Gelson Mendonca, Universidade Federal do Rio de Janeiro, Brazil
15:40 BREAK 16:00	
TP-P1.7	ADAPTIVE RUNLENGTH CODING Chengjie Tu, Jie Liang, Trac Tran, The Johns Hopkins University, United States
TP-P1.8	ON CONTEXT-BASED ENTROPY CODING OF BLOCK TRANSFORM COEFFICIENTS Chengjie Tu, Trac Tran, The Johns Hopkins University, United States
TP-P1.9	A COMPARISON OF METHODS FOR IMPROVING THE LOSSLESS COMPRESSION OF IMAGES WITH SPARSE HISTOGRAMS Armando Pinho, University of Aveiro, Portugal
TP-P1.10	ON THE NON-OPTIMALITY OF FOUR COLOR CODING OF IMAGE PARTITIONS Sameer Agarwal, Serge Belongie, University of California, San Diego, United States
TP-P1.11	FURTHER RESULTS ON DCT-BASED LINEAR PHASE PARAUNITARY FILTER BANKS Jie Liang, Trac Tran, The Johns Hopkins University, United States
TP-P1.12	ITERATIVE SHRINKING METHOD FOR GENERATING CLUSTERING Olli Virtajoki, Pasi Fränti, University of Joensuu, Finland; Timo Kaukoranta, Turku Centre for Computer Science, Finland

Tuesday, 24 September 2002

TP-P2	ERROR CONCEALMENT AND PROTECTION (Poster) Time: Tuesday, 24 September 2002, 14:20 - 17:20 Place: Empire Hall North Area 2 Chair: Y. Altunbasak, Georgia Institute of Technology
TP-P2.1	ERROR DETECTION AND CORRECTION OF TRANSMISSION ERRORS IN SPIHT CODED IMAGES Ekram Khan, Mohammed Ghanbari, University of Essex, United Kingdom
TP-P2.2	IMPROVED ERROR DETECTION AND LOCALIZATION TECHNIQUES FOR MPEG-4 VIDEO Pankaj Bansal, Sasken Communication Technologies Limited, India; Narendran M R, Texas Instruments India, Ltd., India; Murali Manohar N.K, Sasken Communication Technologies Limited, India
TP-P2.3	UPDATING MIXTURE OF PRINCIPAL COMPONENTS FOR ERROR CONCEALMENT Trista Pei-chun Chen, Tsuhan Chen, Carnegie Mellon University, United States
TP-P2.4	ERROR CONCEALMENT FOR SHAPE CODING Paul Salama, Cheng Huang, Indiana University/Purdue University, United States
TP-P2.5	A NURBS-BASED ERROR CONCEALMENT TECHNIQUE FOR CORRUPTED IMAGES FROM PACKET LOSS Ming-Yang Cheng, National Cheng Kung University, Taiwan; Hsin-Yu Huang, Dayeh University, Taiwan; Alvin W. Y. Su, National Cheng Kung University, Taiwan
TP-P2.6	A MULTIPLE DESCRIPTION METHOD FOR WAVELET BASED IMAGE CODING A.C. Ashwin, K.R. Ramakrishnan, Indian Institute of Science, India; S.H. Srinivasan, Satyam Computer Services Ltd., India
15:40 BREAK 16:00	
TP-P2.7	A ROUTER BASED UNEQUAL ERROR CONTROL SCHEME FOR VIDEO OVER THE INTERNET Z. G. Li, Ce Zhu, Xiaokang Yang, Genan Feng, Si Wu, F. Pan, Nanyang Technological University, Singapore; Nam Ling, Santa Clara University, United States
TP-P2.8	UNEQUAL ERROR PROTECTION FOR MOTION COMPENSATED VIDEO STREAMING OVER THE INTERNET Xiaokang Yang, Ce Zhu, Zhengguo Li, Genan Feng, Si Wu, Laboratories for Information Technology, Singapore; Nam Ling, Santa Clara University, United States
TP-P2.9	EFFICIENT PARTITIONING OF UNEQUAL ERROR PROTECTED MPEG VIDEO STREAMS FOR MULTIPLE CHANNEL TRANSMISSION Wen Xu, Sheila Hemami, Cornell University, United States
TP-P2.10	PROGRESSIVE IMAGE TRANSMISSION OVER A NOISY CHANNEL USING WAVELET TRANSFORM AND CHANNEL OPTIMIZED VECTOR QUANTIZATION Jose L. Pérez-Córdoba, University of Granada, Spain; Vicente G. Ruiz, Inmaculada García, University of Almería, Spain
TP-P2.11	THE ERROR CONCEALMENT FEATURE IN THE H.26L TEST MODEL Ye-Kui Wang, Tampere University of Technology, Finland; Miska Hannuksela, Nokia Mobile Software, Finland; Viktor Varsa, Nokia Research Center, United States; Ari Hourunranta, Nokia Mobile Software, Finland; Moncef Gabbouj, Tampere University of Technology, Finland
TP-P2.12	ERROR PROTECTION FOR SCALABLE IMAGE OVER 3G-IP NETWORK Guijin Wang, Xinggong Lin, Tsinghua University, China

- TP-P3** **SEGMENTATION III (Poster)**
 Time: Tuesday, 24 September 2002, 14:20 - 17:20
 Place: Empire Hall North Area 3
 Chair: S. Acton, University of Virginia
- TP-P3.1** **RULE-BASED SCENE EXTRACTION FROM VIDEO**
 Lei Chen, M. Tamer Ozsu, University of Waterloo, Canada
- TP-P3.2** **VSNAKES WITH LOCAL AFFINE DEFORMATIONS**
 Shijun Sun, Sharp Laboratories of America, United States; David Haynor, Yongmin Kim, University of Washington, United States
- TP-P3.3** **SEMANTIC IMAGE SEGMENTATION USING MORPHOLOGICAL TOOLS**
 Alvaro Pardo, Universidad de la República, Uruguay
- TP-P3.4** **NON-PURPOSIVE PERCEPTUAL REGION GROUPING**
 Jiebo Luo, Eastman Kodak Company, United States; Cheng-en Guo, Ohio State University, United States
- TP-P3.5** **UNSUPERVISED MUMFORD-SHAH ENERGY BASED HYBRID OF TEXTURE AND NONTEXTURE IMAGE SEGMENTATION**
 Fei Liu, Xiaodan Song, Yupin Luo, Dongcheng Hu, Tsinghua University, China
- TP-P3.6** **UNSUPERVISED DETECTION OF CONTOURS USING A STATISTICAL MODEL**
 Francois Destremes, Max Mignotte, Université de Montreal, Canada
- 15:40
BREAK
 16:00
- TP-P3.7** **REGULAR SPACIAL B-SPLINE ACTIVE CONTOUR FOR FAST VIDEO SEGMENTATION**
 Frederic Precioso, Michel Barlaud, Université de Nice - Sophia Antipolis, France
- TP-P3.8** **ROBUST FACE DETECTION FOR DIFFERENT CHROMATIC ILLUMINATIONS**
 Soo-Chang Pei, Ching-Long Tseng, National Taiwan University, Taiwan
- TP-P3.9** **USING NON-LINEAR DIFFUSION AND MOTION INFORMATION FOR VIDEO SEGMENTATION**
 Chew Keong Tan, Mohammed Ghanbari, University of Essex, United Kingdom
- TP-P3.10** **SEGMENTATION OF MULTI-MODALITY MR IMAGES BY MEANS OF EVIDENCE THEORY FOR 3D RECONSTRUCTION OF BRAIN TUMORS**
 Anne-Sophie Capelle, Olivier Colot, Christine Fernandez-Maloigne, University of Poitiers, France
- TP-P3.11** **A GRAPH-THEORETIC APPROACH TO MULTISCALE TEXTURE SEGMENTATION**
 Anupama Jagannathan, Eric Miller, Northeastern University, United States
- TP-P3.12** **WATERSHED-BASED REGION MERGING USING CONFLICTING REGIONS**
 Sungeun Eom, Seokcheol Chang, Byungha Ahn, Kwangju Institute of Science and Technology, Republic of Korea

- TP-P4** **ANALYSIS II (Poster)**
 Time: Tuesday, 24 September 2002, 14:20 - 17:20
 Place: Empire Hall North Area 4
 Chair: J. Zerubia, INRIA
- TP-P4.1** **PICTURE-GRAPHICS COLOR IMAGE CLASSIFICATION**
 Salil Prabhakar, DigitalPersona Inc., United States; Hui Cheng, Sarnoff Corporation, United States; John Handley, Zhigang Fan, Ying-wei Lin, Xerox Corporation, United States
- TP-P4.2** **A METHOD FOR COLOR NAMING AND DESCRIPTION OF COLOR COMPOSITION IN IMAGES**
 Aleksandra Mojsilovic, IBM T.J. Watson Research Center, United States
- TP-P4.3** **A FREQUENCY DOMAIN ALGORITHM FOR DETECTION AND CLASSIFICATION OF CYCLIC AND DIHEDRAL SYMMETRIES IN TWO-DIMENSIONAL PATTERNS**
 Luca Lucchese, Oregon State University, United States
- TP-P4.4** **CORNER DETECTION USING SLIT ROTATIONAL EDGE-FEATURE DETECTOR**
 Yasutaka Etou, Japan Advanced Institute of Science and Technology, Japan; Takahiro Sugiyama, Keiichi Abe, Shizuoka University, Japan; Toru Abe, Tohoku University, Japan
- TP-P4.5** **AUTOMATIC LANDMARKING FOR BUILDING BIOLOGICAL SHAPE MODELS**
 Yulia Hicks, David Marshall, Ralph Martin, Paul Rosin, Cardiff University, United Kingdom; Micha Bayer, David Mann, Royal Botanic Garden Edinburgh, United Kingdom
- TP-P4.6** **ROBUST HIGH RESOLUTION IMAGE SPECTRAL ANALYSIS**
 Mohamed El Ansari, Brahim Aksasse, Yannick Berthoumieu, Mohamed Najim, ENSEIRB Université de Bordeaux I, France
- 15:40
BREAK
 16:00
- TP-P4.7** **VQ-FACES - UNSUPERVISED FACE RECOGNITION FROM IMAGE SEQUENCES**
 Bisser Raytchev, Hiroshi Murase, NTT Communication Science Labs, Japan
- TP-P4.8** **PANORAMIC CAPTURING AND RECOGNITION OF HUMAN ACTIVITY**
 Xinding Sun, B.S. Manjunath, University of California, Santa Barbara, United States
- TP-P4.9** **SHAKING SNAKES USING COLOR EDGE FOR CONTOUR EXTRACTION**
 Seok-Woo Jang, Essam El-Kwae, The University of North Carolina at Charlotte, United States; Hyung-Il Choi, Soongsil University, Republic of Korea
- TP-P4.10** **AN ICA ALGORITHM FOR ANALYZING MULTIPLE DATA SETS**
 Ana Lukic, Miles Wernick, Illinois Institute of Technology, United States; Lars Kai Hansen, Technical University of Denmark, Denmark; Stephen Strother, University of Minnesota and VA Medical Center, United States
- TP-P4.11** **ADAPTIVE HISTOGRAMS AND DISSIMILARITY MEASURE FOR TEXTURE RETRIEVAL AND CLASSIFICATION**
 Fun Siong Lim, Wee Kheng Leow, National University of Singapore, Singapore
- TP-P4.12** **OBJECT MATCHING BASED ON PARTITION INFORMATION**
 Ferran Marques, Montse Pardàs, Ramon Morros, Universitat Politècnica de Catalunya, Spain

Tuesday, 24 September 2002

- TP-P5** **ENHANCEMENT & RESTORATION** (Poster)
Time: Tuesday, 24 September 2002, 14:20 - 17:20
Place: Empire Hall North Area 5
Chair: N. Galatsanos, Illinois Institute of Technology
- TP-P5.1** **ON GLOBAL AND LOCAL CONVERGENCE OF HALF-QUADRATIC ALGORITHMS**
Marc Allain, Université Paris XI, France; Jérôme Idier, CNRS, France; Yves Goussard, École Polytechnique, Canada
- TP-P5.2** **MLAND BAYESIAN IMPULSE RESTORATION BASED OBJECT RECOGNITION IN PHOTON LIMITED NOISE**
Ahmad Abu-Naser, Nikolas Galatsanos, Miles Wernick, Illinois Institute of Technology, United States
- TP-P5.3** **ON THE STRUCTURE OF SOME PHASE RETRIEVAL ALGORITHMS**
Heinz Bauschke, University of Guelph, Canada; Patrick Combettes, Université Pierre et Marie Curie - Paris 6, France; Russell Luke, Universitat Gottingen, Germany
- TP-P5.4** **EIGENFACE-BASED SUPER-RESOLUTION FOR FACE RECOGNITION**
Bahadır Gunturk, Aziz Batur, Yücel Altunbasak, Monson Hayes, Russell Mersereau, Georgia Institute of Technology, United States
- TP-P5.5** **THE MUMFORD-SHAH DIGITAL FILTER PAIR (MS-DFP) AND APPLICATIONS**
Jianhong (Jackie) Shen, University of Minnesota, United States
- TP-P5.6** **SUPER-RESOLUTION VIDEO RESTORATION WITH MODEL UNCERTAINTIES**
Zhaozhong Wang, Feihu Qi, Shanghai Jiao Tong University, China
- 15:40
BREAK
16:00
- TP-P5.7** **A SPATIOTEMPORAL IMAGE SEQUENCE RESTORATION ALGORITHM**
Andrei Rares, Marcel J. T. Reinders, Jan Biemond, Reginald L. Lagendijk, Delft University of Technology, Netherlands
- TP-P5.8** **SPATIALLY ADAPTIVE HIGH-RESOLUTION IMAGE RECONSTRUCTION OF LOW-RESOLUTION DCT-BASED COMPRESSED IMAGES**
Sung Cheol Park, Moon Gi Kang, Yonsei University, Republic of Korea; C. Andrew Segall, Aggelos Katsaggelos, Northwestern University, United States
- TP-P5.9** **PROBABILISTIC POPULATION CODING OF MULTIPLE EDGE ORIENTATION**
Niklas Lüdtke, Richard Wilson, Edwin Hancock, The University of York, United Kingdom
- TP-P5.10** **HR IMAGE FROM MULTIFRAMES BY DELAUNAY TRIANGULATION: A SYNOPSIS**
Surapong Lertrattanapanich, Nirmal Bose, The Pennsylvania State University, United States
- TP-P5.11** **WAVELET DENOISING BY RECURSIVE CYCLE SPINNING**
Alyson Fletcher, Kannan Ramchandran, University of California, Berkeley, United States; Vivek Goyal, Digital Fountain, United States
- TP-P5.12** **COMPLEXITY-SCALABLE ALGORITHMIC DESIGN: IMPLEMENTATION OF A SCALABLE RESOLUTION ENHANCEMENT ALGORITHM**
Tsehua Lan, Yingwei Chen, Kees Van Zon, Philips Research, United States

Tuesday, 24 September 2002

- TP-P6** **WATERMARKING II** (Poster)
Time: Tuesday, 24 September 2002, 14:20 - 17:20
Place: Empire Hall North Area 6
- TP-P6.1** **OBJECT-BASED QUALITY OF SERVICE ASSESSMENT USING SEMI-FRAGILE TRACING WATERMARKING IN MPEG-4 VIDEO CELLULAR SERVICES**
Patrizio Campisi, Gaetano Giunta, Alessandro Neri, Università degli Studi di Roma "Roma Tre", Italy
- TP-P6.2** **ESTIMATION OF GEOMETRIC DISTORTIONS IN DIGITAL WATERMARKING**
Severine Baudry, Philippe Nguyen, Thales Communications, France; Henri Maître, ENST, France
- TP-P6.3** **QUANTIZED PROJECTION DATA HIDING**
Fernando Pérez-González, Félix Balado, University of Vigo, Spain
- TP-P6.4** **LOSSLESS AUTHENTICATION OF MPEG-2 VIDEO**
Rui Du, MTL Systems, Inc., United States; Jessica Fridrich, State University of New York Binghamton, United States
- TP-P6.5** **FRAGILE AND SEMI-FRAGILE IMAGE AUTHENTICATION BASED ON IMAGE SELF-SIMILARITY**
Sherif Nour El-Din, Mansour Moniri, Staffordshire University, United Kingdom
- TP-P6.6** **SEMI-FRAGILE IMAGE AUTHENTICATION USING GENERIC WAVELET DOMAIN FEATURES AND ECC**
Qibin Sun, Shih-Fu Chang, Columbia University, United States
- 15:40
BREAK
16:00
- TP-P6.7** **DETECTING HIDDEN MESSAGES USING HIGHER-ORDER STATISTICAL MODELS**
Hany Farid, Dartmouth College, United States
- TP-P6.8** **APPLICATION OF BIT-PLANE DECOMPOSITION STEGANOGRAPHY TO WAVELET ENCODED IMAGES**
Hideki Noda, Jeremiah Spaulding, Kyushu Institute of Technology, Japan; Mahdad N. Shirazi, Communications Research Laboratory, Japan; Michiharu Niimi, Eiji Kawaguchi, Kyushu Institute of Technology, Japan
- TP-P6.9** **WATERMARKING FOR SELF-AUTHENTICATION OF COMPRESSED VIDEO**
Daniel Cross, Motorola Corporation, United States; Bijan Mobasseri, Villanova University, United States
- TP-P6.10** **HIGH CAPACITY AND SECURE DIGITAL STEGANOGRAPHY TO PALETTE-BASED IMAGES**
Michiharu Niimi, Hideki Noda, Eiji Kawaguchi, Kyushu Institute of Technology, Japan; Richard Eason, University of Maine, United States
- TP-P6.11** **A QUANTITATIVE SEMI-FRAGILE JPEG2000 IMAGE AUTHENTICATION SYSTEM**
Qibin Sun, Shih-Fu Chang, Columbia University, United States; Maeno Kurato, Masayuki Suto, Oki Electric Industry Company, Japan
- TP-P6.12** **ON THE SECURITY OF AN IMAGE ENCRYPTION METHOD**
Shujun Li, Xi'an Jiaotong University, China; Xuan Zheng, Polytechnic University, United States

Tuesday, 24 September 2002

TP-P7	APPLICATIONS I (Poster) Time: Tuesday, 24 September 2002, 14:20 - 17:20 Place: Empire Hall North Area 7 Chair: A. Savakis, Rochester Institute of Technology
TP-P7.1	BAYESIAN CLASSIFICATION OF EIGENCELLS Saeid Sanei, Tracey Lee, Singapore Polytechnic, Singapore
TP-P7.2	MODEL-BASED 3D OBJECT DETECTION FROM MULTIVARIATE CONFOCAL MICROSCOPY IMAGES Juhui Wang, Alain Trubuil, INRA, France; Christine Graffigne, Université de Paris V, France; Bertrand Kaeffler, INRA, France
TP-P7.3	A BAYESIAN APPROACH TO INFERRING VASCULAR TREE STRUCTURE FROM 2D IMAGERY Elke Thonnes, Abhir Bhalerao, Wilfrid Kendall, Roland Wilson, Warwick University, United Kingdom
TP-P7.4	TWO-LEVEL MODEL AVERAGING TECHNIQUES IN DROSOPHILA BRAIN IMAGING Ying-Cheng Chen, Yung-Chang Chen, Ann-Shyn Chiang, National Tsing Hua University, Taiwan
TP-P7.5	ANGLE-PRESERVING MAPPINGS FOR THE VISUALIZATION OF MULTI-BRANCHED VESSELS Lei Zhu, Steven Haker, Allen Tannenbaum, Georgia Institute of Technology, United States; Sylvain Bouix, Kaleem Siddiqi, McGill University, Canada
TP-P7.6	BENCHMARKING AND HARDWARE IMPLEMENTATION OF JPEG-LS Andreas Savakis, Michael Piorun, Rochester Institute of Technology, United States
15:40 BREAK 16:00	
TP-P7.7	A SUPPORT VECTOR MACHINE APPROACH FOR DETECTION OF MICROCALCIFICATIONS IN MAMMOGRAMS Issam El-Naqa, Yongyi Yang, Miles Wernick, Nikolas Galatsanos, Illinois Institute of Technology, United States; Robert Nishikawa, University of Chicago, United States
TP-P7.8	A MAP IIR FILTER FOR 3D ULTRASOUND João Sanches, Jorge Marques, Instituto Superior Técnico, Portugal
TP-P7.9	COMBINED ENDOSCOPIC VIDEO TRACKING AND VIRTUAL 3D CT REGISTRATION FOR SURGICAL GUIDANCE James Helferty, William Higgins, Penn State University, United States
TP-P7.10	EXTRACTING FEMORAL MEDULLA DUCTS FROM RADIOGRAPHIC IMAGES BASED ON A MODEL OF THE PROJECTION OF FEMUR SECTION Franco Bartolini, Lapo Governi, Monica Carfagni, Francesco Crispini, Università di Firenze, Italy
TP-P7.11	ANALYSIS OF BLOOD VESSEL TOPOLOGY BY CUBICAL HOMOLOGY Marc Niethammer, Andrew Stein, Georgia Institute of Technology, United States; William Kalies, Florida Atlantic University, United States; Pawel Pilarczyk, Konstantin Mischaikow, Allen Tannenbaum, Georgia Institute of Technology, United States
TP-P7.12	SYNTHESIS-BASED SCALABLE IMAGE ENHANCEMENT FOR DIGITAL RADIOGRAPHY Lijun Yin, State University of New York at Binghamton, United States; Ja-Kwei Chang, State University of New York Upstate Medical University, United States; Anup Basu, University of Alberta, Canada

Wednesday, 25 September 2002

WA-L1	MPEG-4 ANIMATION FRAMEWORK EXTENSION (PART I) (Special) Time: Wednesday, 25 September 2002, 9:20 - 12:40 Place: Highland A Chair: Mikael Bourges-Sevenier, Mindego Inc.
9:20	
WA-L1.1	AN INTRODUCTION TO MPEG-4 ANIMATION FRAMEWORK EXTENSION (AFX) Mikaël Bourges-Sévenier, Mindego, Inc., United States
9:40	
WA-L1.2	SUBDIVISION SURFACES IN MPEG-4 Francisco Morán, University Politécnica Madrid, Spain; Patrick Gioia, France Télécom R&D, France; Michael Steliaros, Superscape (UK), Ltd., United Kingdom; Mikaël Bourges-Sévenier, Mindego, Inc., United States; Narciso García, University Politécnica Madrid, Spain
10:00	
WA-L1.3	REAL-TIME RECONSTRUCTION OF WAVELET ENCODED MESHES FOR VIEW-DEPENDENT TRANSMISSION AND VISUALIZATION Patrick Gioia, Christian Bouville, Olivier Aubault, France Télécom R&D, France
10:20	
WA-L1.4	MESHGRID – A COMPACT, MULTI-SCALABLE AND ANIMATION-FRIENDLY SURFACE REPRESENTATION Ioan Alexandru Salomie, Adrian Munteanu, Augustin Gavrilescu, Vrije Universiteit Brussel, Belgium; Gauthier Lafruit, IMEC, Belgium; Peter Schelkens, Rudi Deklerck, Jan Cornelis, Vrije Universiteit Brussel, Belgium
10:40 BREAK	
11:00	
WA-L1.5	BITSTREAM SYNTAX DESCRIPTION LANGUAGE FOR 3D MPEG-4 VIEW-DEPENDENT TEXTURE STREAMING Roberto Osorio, IMEC, Belgium; Sylvain Devillers, Philips Research France, France; Eric Delfosse, IMEC, Belgium; Myriam Amielh, Philips Research France, France; Gauthier Lafruit, IMEC, Belgium
11:20	
WA-L1.6	SYNTHESIZED TEXTURES IN MPEG-4 Yosi Yomdin, Yoram Elichai, Shlomo Birman, Ehud Speigel, Vimatix Inc., Israel
11:40	
WA-L1.7	DEPTH IMAGE-BASED REPRESENTATIONS FOR STATIC AND ANIMATED 3D OBJECTS Yuri Bayakovski, Moscow State University, Russian Federation; Leonid Levkovich-Maslyuk, Russian Academy of Sciences, Russian Federation; Alexy Ignatenko, A Konushin, Dmitri Timasov, Alexander Zhirkov, Moscow State University, Russian Federation; Mahnjin Han, In Kyu Park, Samsung Advanced Institute of Technology, Republic of Korea
12:00	
WA-L1.8	MPEG-4 TOWARDS SOLID REPRESENTATION Alain Mignot, Pierre Garneau, Jean-François Rotgé, SGDL Systems Inc., Canada
12:20	
WA-L1.9	ANIMATION DATA COMPRESSION IN MPEG-4: INTERPOLATORS James D.K. Kim, Seok Yoon Jung, Mahnjin Han, Samsung Advanced Institute of Technology, Republic of Korea; Euee S. Jang, Hanyang University, Republic of Korea; Sang Oak Woo, Shin Jun Lee, Gyeong Ja Jang, Samsung Advanced Institute of Technology, Republic of Korea

Wednesday, 25 September 2002

- WA-L2** **OBJECTIVE VIDEO QUALITY METRICS** (Special)
Time: Wednesday, 25 September 2002, 9:20 - 12:40
Place: Highland B
Chairs: Jorge Caviedes
 Sanjit Mitra
- 9:20
WA-L2.1 **ACCURACY AND CROSS-CALIBRATION OF VIDEO-QUALITY METRICS: NEW METHODS FROM ATIS/TIA1**
Michael Brill, Jeffrey Lubin, Sarnoff Corporation, United States; Pierre Costa, SBC Technology Resources, Inc., United States; John Pearson, Sarnoff Corporation, United States
- 9:40
WA-L2.2 **VIDEO QUALITY MEASURES BASED ON THE STANDARD SPATIAL OBSERVER**
Andrew B Watson, NASA Ames Research Center, United States; Jesus Malo, Universitat de Valencia, Spain
- 10:00
WA-L2.3 **DEFECT VISIBILITY AND CONTENT IMPORTANCE IMPLICATIONS FOR THE DESIGN OF AN OBJECTIVE VIDEO FIDELITY METRIC**
Michael Moore, Sanjit Mitra, John Foley, University of California, Santa Barbara, United States
- 10:20
WA-L2.4 **PERCEIVED QUALITY METRICS FOR LOW BIT RATE COMPRESSED VIDEO**
Mark Masry, Sheila Hemami, Cornell University, United States
- 10:40
BREAK
- 11:00
WA-L2.5 **NO-REFERENCE SHARPNESS METRIC BASED ON LOCAL EDGE KURTOSIS**
Jorge Caviedes, Philips Research USA, United States; Sabri Gurbuz, Clemson University, United States
- 11:20
WA-L2.6 **A NO-REFERENCE PERCEPTUAL BLUR METRIC**
Pina Marziliano, Frederic Dufaux, Stefan Winkler, Genimedia, Switzerland; Touradj Ebrahimi, Swiss Federal Institute of Technology (EPFL), Switzerland
- 11:40
WA-L2.7 **NO REFERENCE PSNR ESTIMATION FOR COMPRESSED PICTURES**
Deepak Turaga, Yingwei Chen, Jorge Caviedes, Philips Research USA, United States
- 12:00
WA-L2.8 **VIDEO QUALITY ASSESSMENT USING STRUCTURAL DISTORTION MEASUREMENT**
Zhou Wang, The University of Texas, Austin, United States; Ligang Lu, IBM T.J. Watson Research Center, United States; Alan Bovik, The University of Texas, Austin, United States
- 12:20
WA-L2.9 **OBJECTIVE EVALUATION OF NOISE REDUCTION PERFORMANCE IN TV-SYSTEMS**
Hans Puttenstein, Ingrid Heynderickx, Gerard de Haan, Philips Research, Netherlands

Wednesday, 25 September 2002

- WA-L3** **IMAGE COMPRESSION II** (Lecture)
Time: Wednesday, 25 September 2002, 9:20 - 12:20
Place: Highland C
Chair: L. Torres, Technical University of Catalonia
- 9:20
WA-L3.1 **JPEG2000-MATCHED MRC COMPRESSION OF COMPOUND DOCUMENTS**
Debargha Mukherjee, Hewlett-Packard Laboratories, United States; Christos Chrysafis, Divio, Inc., United States; Amir Said, Hewlett-Packard Laboratories, United States
- 9:40
WA-L3.2 **ADAPTIVE RATE CONTROL FOR JPEG2000 IMAGE CODING IN EMBEDDED SYSTEMS**
Takahiko Masuzaki, Hiroshi Tsutsui, Tomonori Izumi, Takao Onoyo, Yukihiro Nakamura, Kyoto University, Japan
- 10:00
WA-L3.3 **GENERALIZED BITPLANE-BY-BITPLANE SHIFT METHOD FOR JPEG2000 ROI CODING**
Zhou Wang, Serene Banerjee, Brian Evans, Alan Bovik, The University of Texas, Austin, United States
- 10:20
WA-L3.4 **COMPUTATION REDUCTION TECHNIQUE FOR LOSSY JPEG2000 ENCODING THROUGH EBCOT TIER-2 FEEDBACK PROCESSING**
Te-Hao Chang, Li-Lin Chen, Chung-Jr Lian, Hong-Hui Chen, Liang-Gee Chen, National Taiwan University, Taiwan
- 10:40
BREAK
- 11:00
WA-L3.5 **CONTEXT FORMATION BY MUTUAL INFORMATION MAXIMIZATION**
Zhen Liu, Lina Karam, Arizona State University, United States
- 11:20
WA-L3.6 **AN ITERATIVE ALGORITHM FOR CONTEXT SELECTION IN ADAPTIVE ENTROPY CODERS**
Jacques Vaisey, Tong Jin, Simon Fraser University, Canada
- 11:40
WA-L3.7 **RATE-DISTORTION MODEL AND ANALYTICAL BIT ALLOCATION FOR WAVELET-BASED REGION OF INTEREST CODING**
Phoom Sagetong, Antonio Ortega, University of Southern California, United States
- 12:00
WA-L3.8 **FLEXIBLE, DYNAMIC AND COMPLIANT REGION OF INTEREST CODING IN JPEG2000**
René Rosenbaum, Heidrun Schumann, University of Rostock, Germany

Wednesday, 25 September 2002

- WA-L4** **ANALYSIS I (Lecture)**
Time: Wednesday, 25 September 2002, 9:20 - 12:20
Place: Highland D
Chair: R. Nowak, Rice University
- 9:20
WA-L4.1 **TEXTURE ANALYSIS USING FRACTALS FOR TOOL WEAR MONITORING**
Ashraf A. Kassim, Zhu Mian, M. A. Mannan, National University of Singapore, Singapore
- 9:40
WA-L4.2 **FUSION OF RADIOMETRY AND TEXTURAL INFORMATION FOR SIR-C IMAGE CLASSIFICATION**
Oscar Viveros-Cancino, Xavier Descombes, Josiane Zerubia, INRIA/CNRS/UNSA, France; Nicolas Baghdadi, BRGM, France
- 10:00
WA-L4.3 **INDEPENDENT FILTERS FOR TEXTURE CLASSIFICATION**
XiuWen Liu, Lei Cheng, Florida State University, United States
- 10:20
WA-L4.4 **MODEL BASED ROTATION-INVARIANT TEXTURE CLASSIFICATION**
Patrizio Campisi, Alessandro Neri, Università degli Studi di Roma "Roma Tre", Italy; Gaetano Scarano, Università degli Studi di Roma "La Sapienza", Italy
- 10:40
BREAK
- 11:00
WA-L4.5 **ON THE STABILITY OF SUPPORT VECTOR MACHINES FOR FACE DETECTION**
Ioan Buciu, Constantine Kotropoulos, Ioannis Pitas, Aristotle University of Thessaloniki, Greece
- 11:20
WA-L4.6 **PERFORMANCE COMPARISONS OF MULTI-MODAL MEDICAL IMAGE REGISTRATION ALGORITHMS**
Abdelaziz Chihoub, Siemens, United States; Ravi Bansal, Siemens Corporate Research, Inc., United States; Ali Bani-hashemi, Siemens Medical Systems, Inc., United States
- 11:40
WA-L4.7 **APPLICATION OF SUPPORT VECTOR MACHINES CLASSIFIERS TO VISUAL SPEECH RECOGNITION**
Mihaela Gordan, Technical University of Cluj-Napoca, Romania; Constantine Kotropoulos, Ioannis Pitas, Aristotle University of Thessaloniki, Greece
- 12:00
WA-L4.8 **A REVERSIBLE JUMP MARKOV CHAIN MONTE CARLO ALGORITHM FOR ANALYSIS OF FUNCTIONAL NEUROIMAGES**
Ana Lukic, Miles Wernick, Nikolas Galatsanos, Yongyi Yang, Illinois Institute of Technology, United States; Stephen Strother, University of Minnesota and VA Medical Center, United States

Wednesday, 25 September 2002

- WA-L5** **MEDICAL IMAGING (Lecture)**
Time: Wednesday, 25 September 2002, 9:20 - 12:20
Place: Highland E
Chair: C. Bouman, Purdue University
- 9:20
WA-L5.1 **MULTIMODAL RETINAL IMAGING: NEW STRATEGIES FOR THE DETECTION OF GLAUCOMA**
Paul Rosin, David Marshall, James E. Morgan, Cardiff University, United Kingdom
- 9:40
WA-L5.2 **CONTENT-BASED IMAGE RETRIEVAL FOR DIGITAL MAMMOGRAPHY**
Issam El-Naqa, Yongyi Yang, Nikolas Galatsanos, Miles Wernick, Illinois Institute of Technology, United States
- 10:00
WA-L5.3 **SEMANTIC BASED CATEGORIZATION, BROWSING AND RETRIEVAL IN MEDICAL IMAGE DATABASES**
Aleksandra Mojsilovic, Jose Gomes, IBM T.J. Watson Research Center, United States
- 10:20
WA-L5.4 **THREE-DIMENSIONAL CT IMAGE RETRIEVAL IN A DATABASE OF PULMONARY NODULES**
Yoshiki Kawata, Noboru Niki, University of Tokushima, Japan; H. Ohmatsu, National Cancer Center East, Japan; M. Kusumoto, R. Kakinuma, National Cancer Center, Japan; K. Mori, Tochigi Cancer Center, Japan; H. Nishiyama, The Social Health Medical Center, Japan; K. Eguchi, University of Tokai, Japan; M. Kaneko, N. Moriyama, National Cancer Center, Japan
- 10:40
BREAK
- 11:00
WA-L5.5 **LUNG NODULES CLASSIFICATION UTILIZING SUPPORT VECTOR MACHINES**
Wail Mousa, Mohammad Khan, King Fahd University of Petroleum and Minerals, Saudi Arabia
- 11:20
WA-L5.6 **SHARED-BOUNDARY FUSION FOR ESTIMATION OF NOISY MULTI-MODALITY ATHEROSCLEROTIC PLAQUE IMAGERY**
Robert Weisenseel, Boston University, United States; Raymond Chan, Massachusetts General Hospital, United States; William Karl, Boston University, United States
- 11:40
WA-L5.7 **EVALUATION OF REPRODUCIBILITY FOR MANUAL AND SEMI-AUTOMATED FEATURE EXTRACTION IN CT AND MR IMAGES**
Edward Ashron, University of Rochester, United States; Larry Molinelli, VirtualScopics, LLC, United States; Saara Totterman, Kevin Parker, University of Rochester, United States
- 12:00
WA-L5.8 **TRACKING FAST-ROLLING LEUKOCYTES IN VIVO WITH ACTIVE CONTOURS**
Nilanjan Ray, Scott T. Acton, University of Virginia, United States

Wednesday, 25 September 2002

WA-P1	STREAMING VIDEO (Poster) Time: Wednesday, 25 September 2002, 9:20 - 12:20 Place: Empire Hall North Area 1 Chair: M. R. Civanlar
WA-P1.1	FAST SELF-SYNCHRONOUS CONTENT SCRAMBLING BY SPATIALLY SHUFFLING CODEWORDS OF COMPRESSED BITSTREAMS Wenjun Zeng, Jiangtao Wen, Mike Severa, PacketVideo Corporation, United States
WA-P1.2	A SCHEDULING SCHEME FOR MULTIPLEXING OF VBR SOURCES IN DIGITAL TV SYSTEMS Mehran Azimi, Panos Nasiopoulos, Rabab Ward, University of British Columbia, Canada
WA-P1.3	DISTRIBUTED MULTIMEDIA TRANSMISSION FROM MULTIPLE SERVERS Abhik Majumdar, Rohit Puri, Kannan Ramchandran, University of California, Berkeley, United States
WA-P1.4	A METADATA-BASED RCBR TRANSMISSION OF VIDEO-ON-DEMAND Hwangjun Song, Hongik University, Republic of Korea
WA-P1.5	PROTOCOLS FOR DISTRIBUTED VIDEO STREAMING Thinh Nguyen, Avideh Zakhor, University of California, Berkeley, United States
WA-P1.6	RATE-DISTORTION OPTIMIZED VIDEO STREAMING WITH ADAPTIVE PLAYOUT Mark Kalman, Stanford University, United States; Eckehard Steinbach, Technical University of Munich, Germany; Bernd Girod, Stanford University, United States
10:40 BREAK 11:00	
WA-P1.7	OPEN-LOOP RATE CONTROL FOR REAL-TIME VIDEO STREAMING: ANALYSIS OF BINOMIAL ALGORITHMS Dmitri Loguinov, City University of New York, United States; Hayder Radha, Michigan State University, United States
WA-P1.8	EFFICIENT PARTIAL STREAMING OF COMPRESSED VIDEO Krishna Ratakonda, IBM T.J. Watson Research Center, United States
WA-P1.9	DATA RATE SMOOTHING IN INTERACTIVE WALKTHROUGH APPLICATIONS USING 2D PREFETCHING Vitali Zagorodnov, Peter Ramadge, Princeton University, United States
WA-P1.10	ENHANCING MULTIMEDIA STREAMING PERFORMANCE THROUGH PEER-PAIRED COLLABORATION Hao Wang, Tsinghua University, China; Guobin Shen, Shipeng Li, Microsoft Research Asia, China; Yuzhuo Zhong, Tsinghua University, China
WA-P1.11	EFFICIENT REPRESENTATION AND INTERACTIVE STREAMING OF HIGH-RESOLUTION PANORAMIC VIEWS Carsten Grunheit, Aljoscha Smolic, Thomas Wiegand, Heinrich-Hertz-Institute, Germany
WA-P1.12	VIDEO RECEIVER BASED REAL-TIME ESTIMATION OF CHANNEL CAPACITY Dmitri Loguinov, City University of New York, United States; Hayder Radha, Michigan State University, United States

Wednesday, 25 September 2002

WA-P2	WAVELET COMPRESSION (Poster) Time: Wednesday, 25 September 2002, 9:20 - 12:20 Place: Empire Hall North Area 2 Chair: C. Guillemot, IRISA
WA-P2.1	WAVELET PICTURE CODING AND ITS SEVERAL PROBLEMS OF THE APPLICATION TO THE INTERLACE HDTV AND THE ULTRA-HIGH DEFINITION IMAGES Tetsuro Kuge, NHK (Japan Broadcasting Corporation), Japan
WA-P2.2	ON EXPLOITING PHASE CONSTRAINT WITH IMAGE WAVELET COEFFICIENTS Xin Li, Sharp Laboratories of America, United States
WA-P2.3	WAVELET CODING OF VOLUMETRIC MEDICAL DATASETS Peter Schelkens, Adrian Munteanu, Jan Cornelis, Vrije Universiteit Brussel, Belgium
WA-P2.4	COMBINING WAVELETS AND GLICBAWLS TO ACHIEVE RESOLUTION-PROGRESSIVE LOSSLESS COMPRESSION Charles Creusere, New Mexico State University, United States; Nick Tolk, Honeywell Federal Manufacturing and Technologies, United States
WA-P2.5	CONTRAST-BASED QUANTIZATION AND RATE CONTROL FOR WAVELET-CODED IMAGES Damon Chandler, Sheila Hemami, Cornell University, United States
WA-P2.6	RATE-DISTORTION OPTIMIZED IMAGE COMPRESSION USING WEDGELETS Michael Wakin, Justin Romberg, Hyeokho Choi, Richard Baraniuk, Rice University, United States
10:40 BREAK 11:00	
WA-P2.7	WAVELET BASED EFFICIENT COLOR IMAGE CODING TECHNIQUE Ekram Khan, Mohammed Ghanbari, University of Essex, United Kingdom
WA-P2.8	BIASED RECONSTRUCTION OF WAVELET COEFFICIENTS IN JPEG2000 DECODING Aaron Deever, Eastman Kodak Company, United States
WA-P2.9	APPLICATION OF JND VISUAL MODEL TO SPIHT IMAGE CODING AND PERFORMANCE EVALUATION Day-Fann Shen, Hen-Hsing Sung, Yunlin University of Science and Technology, Taiwan
WA-P2.10	WAVELET IMAGE CODING WITH ADAPTIVE DEAD-ZONE SELECTION : APPLICATION TO JPEG2000 Azza Ouled Zaid, Christian Olivier, François Marmoiton, UMR-CNRS 6615, France
WA-P2.11	EFFICIENT MOTION FIELD REPRESENTATION IN THE WAVELET DOMAIN FOR VIDEO COMPRESSION Xin Li, Shawmin Lei, Sharp Laboratories of America, United States
WA-P2.12	GROUPED ZEROTREE WAVELET IMAGE CODING FOR VERY LOW BITRATE Woo-Young Jang, Byung-Hoan Chon, Seh-Woong Jeong, Samsung Electronics Co., Ltd., Republic of Korea; Kwang-Hoon Sohn, Yonsei University, Republic of Korea

Wednesday, 25 September 2002

- WA-P3** **SEGMENTATION IV (Poster)**
Time: Wednesday, 25 September 2002, 9:20 - 12:20
Place: Empire Hall North Area 3
Chair: A. Dumitras, Apple Computer
- WA-P3.1** **A FAST 2D ENTROPIC THRESHOLDING METHOD BY WAVELET DECOMPOSITION**
Qing Wang, Qiurang Wang, Northwestern Polytechnical University, China; David Feng, The University of Sydney, Australia; Rongchun Zhao, Northwestern Polytechnical University, China; Zheru Chi, The Hong Kong Polytechnic University, Hong Kong SAR of China
- WA-P3.2** **AGGLOMERATIVE CLUSTERING OF FEATURE DATA FOR IMAGE SEGMENTATION**
D.P. Mukherjee, University of Virginia, United States; Partha Pratim Mohanta, Indian Statistical Institute, India; Scott T. Acton, University of Virginia, United States
- WA-P3.3** **A SIMPLE AND EFFICIENT ALGORITHM FOR PART DECOMPOSITION OF 3-D TRIANGULATED MODELS BASED ON CURVATURE ANALYSIS**
Yan Zhang, Joonki Paik, Andreas Koschan, Mongi Abidi, The University of Tennessee, United States; David Gorsich, U. S. Army TACOM, United States
- WA-P3.4** **OBJECT CONTOUR TRACKING USING GRAPH CUTS BASED ACTIVE CONTOURS**
Ning Xu, Narendra Ahuja, University of Illinois at Urbana-Champaign, United States
- WA-P3.5** **DISCRETE WAVELET TRANSFORM WITH OPTIMAL JOINT LOCALIZATION FOR DETERMINING THE NUMBER OF IMAGE TEXTURE SEGMENTS**
Peter Tay, Joseph Havlicek, Victor DeBrunner, University of Oklahoma, United States
- WA-P3.6** **SHADOWS ANALYSIS AND SYNTHESIS IN NATURAL VIDEO SEQUENCES**
Jean-Marie Pinel, Henri Nicolas, IRISA/INRIA, France
- 10:40
BREAK
11:00
- WA-P3.7** **ADAPTIVE MORPHOLOGICAL TIME STAMP SEGMENTATION BASED ON EFFICIENT GLOBAL MOTION ESTIMATION**
Julián Fierrez, Luis Salgado, Enrique Navarro, Universidad Politécnica de Madrid, Spain
- WA-P3.8** **FUZZY-BASED UNSUPERVISED SEGMENTATION OF TEXTURED COLOR IMAGES**
Xiaoyan Dai, Junji Maeda, Muroran Institute of Technology, Japan
- WA-P3.9** **IMAGE SEGMENTATION USING STATISTICAL CLUSTERING WITH SADDLE POINT DETECTION**
Dorin Comaniciu, Siemens Corporate Research, Inc., United States
- WA-P3.10** **OBJECTIVE EVALUATION OF SEGMENTATION QUALITY USING SPATIO-TEMPORAL CONTEXT**
Andrea Cavallaro, Elisa Drelic Gelasca, Touradj Ebrahimi, Swiss Federal Institute of Technology (EPFL), Switzerland
- WA-P3.11** **EXTRACTION OF SEMANTIC OBJECTS FROM STILL IMAGES**
Alvaro Pardo, Universidad de la República, Uruguay
- WA-P3.12** **A STUDY OF CONTEXTUAL MODELING AND TEXTURE CHARACTERIZATION FOR MULTISCALE BAYESIAN SEGMENTATION**
Guoliang Fan, Xiaomu Song, Oklahoma State University, United States

Wednesday, 25 September 2002

- WA-P4** **COMPUTER VISION III (Poster)**
Time: Wednesday, 25 September 2002, 9:20 - 12:20
Place: Empire Hall North Area 4
- WA-P4.1** **SPACES AND SUBSPACES OF IMAGES FOR RECOGNITION**
XiuWen Liu, Anuj Srivastava, Florida State University, United States
- WA-P4.2** **DETECTION OF OBJECTS CARRIED BY PEOPLE**
Antonella Branca, Marco Leo, Giovanni Attolico, Arcangelo Distante, National Research Council, Italy
- WA-P4.3** **EIGENVECTOR METHOD FOR TEXTURE RECOGNITION**
Marco Carcassoni, Eraldo Ribeiro, Edwin Hancock, The University of York, United Kingdom
- WA-P4.4** **REAL-TIME MULTIPLE PEOPLE TRACKING USING COMPETITIVE CONDENSATION**
Heegu Kang, Daijin Kim, Sung Yang Bang, POSTECH, Republic of Korea
- WA-P4.5** **PATTERN HASHING — OBJECT RECOGNITION BASED ON A DISTRIBUTED LOCAL APPEARANCE MODEL —**
Osamu Yamaguchi, Kazuhiro Fukui, Toshiba Corporation, Japan
- WA-P4.6** **ROBUST POSE ESTIMATION FOR 3D FACE MODELING FROM STEREO SEQUENCES**
Hui Zhang, Guangyou Xu, Qing Wu, Qiang Wang, Tsinghua University, China
- 10:40
BREAK
11:00
- WA-P4.7** **EYE DETECTION USING COLOR CUES AND PROJECTION FUNCTIONS**
R. Thilak Kumar, S. Kumar Raja, A. G. Ramakrishnan, Indian Institute of Science, India
- WA-P4.8** **MULTIPLE OBJECT TRACKING UNDER HEAVY OCCLUSIONS BY USING KALMAN FILTERS BASED ON SHAPE MATCHING**
Lucio Marcenaro, Manuela Ferrari, Luca Marchesotti, Carlo Regazzoni, University of Genoa, Italy
- WA-P4.9** **INVARIANT FEATURE EXTRACTION BASED ON RADIAL AND DISTANCE FUNCTION FOR AUTOMATIC TARGET RECOGNITION**
Sun-Gu Sun, HyunWook Park, Korea Advanced Institute of Science and Technology, Republic of Korea
- WA-P4.10** **FAST OBJECT RECOGNITION AND POSE DETERMINATION**
Martin Sengel, Martin Berger, Graz University of Technology, Austria; Vassili Kravtchenko-Berejnoi, AutomationX, Austria; Horst Bischof, Graz University of Technology, Austria
- WA-P4.11** **TEXTURE INSPECTION FOR DEFECTS USING NEURAL NETWORKS AND SUPPORT VECTOR MACHINES**
Ajay Kumar, Helen C. Shen, Hong Kong University of Science and Technology, Hong Kong SAR of China
- WA-P4.12** **VIDEO FRAME ALIGNMENT IN MULTIPLE VIEWS**
Sujit Kuthirummal, C. V. Jawahar, P. J. Narayanan, National Institute of Information Technology, India

Wednesday, 25 September 2002

- WA-P5** **INTERPOLATION AND SPATIAL TRANSFORMATIONS**
(Poster)
Time: Wednesday, 25 September 2002, 9:20 - 12:20
Place: Empire Hall North Area 5
Chair: E. Dubois, University of Ottawa
- WA-P5.1** **GEOMETRIC CORRECTION THROUGH COMPLEX INTERPOLATION**
Frank Crosby, Coastal Systems Station, United States
- WA-P5.2** **PATTERN MATCHING ASSISTED MOTION ESTIMATION AND MOTION VECTOR HISTOGRAM ANALYSIS FOR INTERLACED-TO-PROGRESSIVE CONVERSION**
Seungjoon Yang, Youngho Lee, Sung Hee Lee, Samsung Electronics Co., Ltd., Republic of Korea; Rae-Hong Park, Sogang University, Republic of Korea
- WA-P5.3** **A NEW DIRECTION ADAPTIVE SCHEME FOR IMAGE INTERPOLATION**
Hao Jiang, Cecilia Moloney, Memorial University of Newfoundland, Canada
- WA-P5.4** **OPTIMAL FACE RECONSTRUCTION USING TRAINING**
D. Darian Muresan, Thomas W. Parks, Cornell University, United States
- WA-P5.5** **HOW A SIMPLE SHIFT CAN SIGNIFICANTLY IMPROVE THE PERFORMANCE OF LINEAR INTERPOLATION**
Thierry Blu, Philippe Thévenaz, Michael Unser, Swiss Federal Institute of Technology (EPFL), Switzerland
- WA-P5.6** **MULTIGRID IMAGE RECONSTRUCTION FROM ARBITRARILY SPACED SAMPLES**
Muthuvel Arigovindan, Michael Suehling, Patrick Hunziker, Michael Unser, Swiss Federal Institute of Technology (EPFL), Switzerland
- 10:40
BREAK
11:00
- WA-P5.7** **A ROUGH-TO-FINE SATELLITE IMAGE REGISTRATION METHOD WITH SUB-PIXEL ACCURACY**
Zhaohui Zhang, Veronique Prinnet, Chinese Academy of Sciences, China
- WA-P5.8** **IMAGE RESAMPLING BETWEEN ORTHOGONAL AND HEXAGONAL LATTICES**
Dimitri Van De Ville, Rik Van de Walle, Wilfried Philips, Ignace Lemahieu, Ghent University, Belgium
- WA-P5.9** **TEMPORAL INTERPOLATION USING WAVELET DOMAIN MOTION ESTIMATION AND MOTION COMPENSATION**
Ming Fai Fu, Oscar C. Au, Wing Cheong Chan, Hong Kong University of Science and Technology, China
- WA-P5.10** **MOTION DECISION FEEDBACK DEINTERLACING ALGORITHMS**
Yeong-Taeg Kim, Samsung Information Systems America, United States; Shin-Haeng Kim, Se-Woong Park, Samsung Electronics Co., Ltd., Republic of Korea
- WA-P5.11** **ISOPHOTE ESTIMATION BY CUBIC-SPLINE INTERPOLATION**
Qing Wang, Rabab Ward, Hongjian Shi, University of British Columbia, Canada
- WA-P5.12** **RECONSTRUCTION OF IRREGULARLY-SAMPLED IMAGES BY REGULARIZATION IN SPLINE SPACES**
Carlos Vázquez, INRS-Télécommunications, Canada; Eric Dubois, University of Ottawa, Canada; Janusz Konrad, Boston University, United States

Wednesday, 25 September 2002

- WA-P6** **IMAGE SEQUENCE PROCESSING II** (Poster)
Time: Wednesday, 25 September 2002, 9:20 - 12:20
Place: Empire Hall North Area 6
Chair: R. Legendijk, Delft University of Technology
- WA-P6.1** **PARTITION PROJECTION IN VIDEOS BY GLOBAL AND LOCAL BLOCK-MATCHING**
Guillaume Forest, Pascal Bertolino, David Cibaud, Laboratoire des Images et des Signaux, France
- WA-P6.2** **A PREDICTIVE CONTOUR INERTIA SNAKE MODEL FOR GENERAL VIDEO TRACKING**
Hao Jiang, Mark Drew, Simon Fraser University, Canada
- WA-P6.3** **ROBUST WAVELET-BASED ARBITRARY GRID DETECTION FOR MPEG**
Estelle Lesellier, Joel Jung, Philips Research, France
- WA-P6.4** **SHOT DETECTION IN VIDEO SEQUENCES USING ENTROPY-BASED METRICS**
Zuzana Cernekova, Christophoros Nikou, Ioannis Pitas, University of Thessaloniki, Greece
- WA-P6.5** **BAYESIAN STRUCTURE FROM MOTION USING INERTIAL INFORMATION**
Gang Qian, Rama Chellappa, Qinfen Zheng, University of Maryland, United States
- WA-P6.6** **SMART CAMERAS WITH REAL-TIME VIDEO OBJECT GENERATION**
Alessio Del Bue, University of Genova, Italy; Dorin Comaniciu, Visvanathan Ramesh, Siemens Corporate Research, Inc., United States; Carlo Regazzoni, University of Genova, Italy
- 10:40
BREAK
11:00
- WA-P6.7** **GAIT RECOGNITION BASED ON PROCRUSTES SHAPE ANALYSIS**
Liang Wang, Huazhong Ning, Weiming Hu, Tieniu Tan, Chinese Academy of Sciences, China
- WA-P6.8** **ROBUST REAL-TIME INTRUSION DETECTION WITH FUZZY CLASSIFICATION**
Giovanni Milanese, Augusto Sarti, Stefano Tubaro, Politecnico di Milano, Italy
- WA-P6.9** **REAL-TIME OBJECTS TRACKING BY USING SMART IMAGE SENSOR AND FPGA**
Takayuki Hamamoto, Shoichi Nagao, Tokyo University of Science, Japan; Kiyoharu Aizawa, University of Tokyo, Japan
- WA-P6.10** **A CAMERA-BASED SYSTEM FOR EARLY DETECTION OF DROWNING INCIDENTS**
Wenmiao Lu, Yap-Peng Tan, Nanyang Technological University, Singapore
- WA-P6.11** **DETECTION AND LOCATION OF PEOPLE IN VIDEO STREAMS BY FUSION OF COLOR, EDGE AND MOTION INFORMATION**
Zhengping Wu, Jiajun Bu, Chun Chen, Zhejiang University, China
- WA-P6.12** **TOWARDS PLUG-AND-PLAY VISUAL SURVEILLANCE: LEARNING TRACKING MODELS**
John-Paul Renno, James Orwell, Graeme A. Jones, Kingston University, United Kingdom

Wednesday, 25 September 2002

- WA-P7** **WATERMARKING IV** (Poster)
Time: Wednesday, 25 September 2002, 9:20 - 12:20
Place: Empire Hall North Area 7
Chair: M. Rabbani, Eastman Kodak Company
- WA-P7.1** **ON THE EVALUATION OF PERFORMANCE OF CORRELATION-BASED WATERMARKING TECHNIQUES IN THE FREQUENCY DOMAIN**
Masataka Ejima, Kyushu University, Japan; Akio Miyazaki, Kyushu Sangyo University, Japan
- WA-P7.2** **LIST VITERBI DECODING OF CONVOLUTIONAL CODES FOR EFFICIENT DATA HIDING**
Nikolaos Thomos, Nikolaos Boulgouris, Dimitrios Simitopoulos, Michael Strintzis, Informatics and Telematics Institute, Greece
- WA-P7.3** **OPTIMAL DETECTOR STRUCTURE FOR DCT AND SUBBAND DOMAIN WATERMARKING**
Athanasios Nikolaidis, Ioannis Pitas, Aristotle University of Thessaloniki, Greece
- WA-P7.4** **A COMPARISON BETWEEN AN OBJECTIVE QUALITY MEASURE AND THE MEAN ANNOYANCE VALUES OF WATERMARKED VIDEOS**
Mylène Farias, University of California, Santa Barbara, United States; Marco Carli, University of Roma TRE, Italy; Sanjit Mitra, University of California, Santa Barbara, United States; Alessandro Neri, University of Roma TRE, Italy
- WA-P7.5** **NONADDITIVE GAUSSIAN WATERMARKING AND ITS APPLICATION TO WAVELET-BASED IMAGE WATERMARKING**
Pierre Moulin, Aleksandar Ivanovic, University of Illinois at Urbana-Champaign, United States
- WA-P7.6** **PERCEPTUAL WATERMARKING OF NON I.I.D. SIGNALS BASED ON WIDE SPREAD SPECTRUM USING SIDE INFORMATION**
Gaëtan Le Guelvouit, Stéphane Pateux, Christine Guillemot, IRISA/INRIA, France
- 10:40
BREAK
11:00
- WA-P7.7** **DIGITAL WATERMARKING IN JOINT TIME-FREQUENCY DOMAIN**
Bijan Mobasser, Villanova University, United States
- WA-P7.8** **WATERFILLING: A CONNECTION BETWEEN INFORMATION THEORETIC AND PERCEPTUALLY BASED WATERMARKING**
Siva Somasundaram, Rajarathnam Chandramouli, Stevens Institute of Technology, United States
- WA-P7.9** **AFFINE TRANSFORMATION RESISTANT WATERMARKING BASED ON IMAGE NORMALIZATION**
Ping Dong, Nikolas Galatsanos, Illinois Institute of Technology, United States
- WA-P7.10** **GEOMETRIC ROBUST WATERMARKING BASED ON A NEW MESH MODEL CORRECTION APPROACH**
Ping Dong, Jovan Brankov, Nikolas Galatsanos, Yongyi Yang, Illinois Institute of Technology, United States
- WA-P7.11** **A BLIND WATERMARKING TECHNIQUE IN JPEG COMPRESSED DOMAIN**
Peter Hon Wah Wong, Oscar C. Au, Hong Kong University of Science and Technology, Hong Kong SAR of China
- WA-P7.12** **AN AUTOMATIC SCHEME FOR STEREOSCOPIC VIDEO OBJECT-BASED WATERMARKING USING QUALIFIED SIGNIFICANT WAVELET TREES**
Klimis Ntalianis, Anastasios Doulamis, Nikolaos Doulamis, Stefanos Kollias, National Technical University of Athens, Greece

Wednesday, 25 September 2002

- WP-L1A** **MPEG-4 ANIMATION FRAMEWORK EXTENSION (PART II)** (Special)
Time: Wednesday, 25 September 2002, 14:00 - 14:40
Place: Highland A
Chair: Mikael Bourges-Sevenier, Mindego Inc.
- 14:00
WP-L1A.1 **CRITIC REVIEW ON MPEG-4 FACE AND BODY ANIMATION**
Marius Preda, Françoise Prêteux, Institut National des Téléco, France
- 14:20
WP-L1A.2 **ADVANCED ANIMATION FRAMEWORK FOR VIRTUAL CHARACTER WITHIN THE MPEG-4 STANDARD**
Marius Preda, Françoise Prêteux, Institut National des Téléco, France
-
- Session WP-L1A ends at 14:40. Session WP-L1B begins at 14:40.**
The coffee break for this session begins at 15:20.
-
- WP-L1B** **VIRTUAL HABITATS** (Special)
Time: Wednesday, 25 September 2002, 14:40 - 17:00
Place: Highland A
Chair: Franz Leberl, Graz University of Technology
- 14:40
WP-L1B.1 **VANISHING POINTS AND 3D LINES FROM OMNIDIRECTIONAL VIDEO**
Michael Bosse, Richard Rikoski, John Leonard, Seth Teller, Massachusetts Institute of Technology, United States
- 15:00
WP-L1B.2 **AUTOMATED RECONSTRUCTION FROM MULTIPLE PHOTOGRAPHS**
Andrew Zisserman, F. Schaffalitzky, T. Werner, A. Fitzgibbon, University of Oxford, United Kingdom
- 15:20
BREAK
- 15:40
WP-L1B.3 **TIN SURFACE RECONSTRUCTION FROM MULTIPLE CALIBRATED AERIAL IMAGES IN URBAN AREAS**
Gregoire Maillat, Nicolas Paproditis, Francois Taillandier, Institut Geographique National, France
- 16:00
WP-L1B.4 **AUTOMATIC AND INTERACTIVE MODELING OF BUILDINGS IN URBAN ENVIRONMENTS FROM AERIAL IMAGES**
Ram Nevatia, Keith Price, University of Southern California, United States
- 16:20
WP-L1B.5 **ADVANCED POINT CLOUD GENERATION FOR PHOTOGRAMMETRIC MODELING OF COMPLEX 3D OBJECTS**
Steven Soule, Kelly Maurice, Wolfgang Walcher, Jason Szabo, Vexcel Corporation, United States
- 16:40
WP-L1B.6 **METROPOGIS: A CITY INFORMATION SYSTEM**
Konrad Karner, Joachim Bauer, Andreas Klaus, VRVIS Research Center, Austria; Konrad Schindler, Graz University of Technology, Austria

Wednesday, 25 September 2002

WP-L2	ERROR RESILIENT CODING (Lecture) Time: Wednesday, 25 September 2002, 14:00 - 17:00 Place: Highland B Chair: S. Hemami, Cornell University
14:00	
WP-L2.1	SUB-PICTURE: ROI CODING AND UNEQUAL ERROR PROTECTION Miska Hannuksela, Nokia Mobile Phones, Finland; Ye-Kui Wang, Moncef Gabbouj, Tampere University of Technology, Finland
14:20	
WP-L2.2	MULTIPLE DESCRIPTION IMAGE CODING FRAMEWORK FOR EBCOT K.P. Subbalakshmi, Siva Somasundaram, Stevens Institute of Technology, United States
14:40	
WP-L2.3	ERROR RESILIENCE PROPERTY OF MULTIHYPOTHESIS MOTION-COMPENSATED PREDICTION Shunan Lin, Yao Wang, Polytechnic University, United States
15:00	
WP-L2.4	IMAGE TRANSMISSION USING ERROR-RESILIENT WAVELET CODING AND FORWARD ERROR CORRECTION Nikolaos Boulgouris, Nikolaos Thomos, Michael Srintzis, Informatics and Telematics Institute, Greece
15:20	
BREAK	
15:40	
WP-L2.5	LOW BIT RATE, ERROR RESILIENT IMAGE COMMUNICATION USING NONLINEAR PRE AND POST-PROCESSING AND PROGRESSIVE IMAGE TRANSMISSION Shahram Shirani, McMaster University, Canada
16:00	
WP-L2.6	A TWO-STAGE MULTIPLE DESCRIPTION VIDEO CODER WITH DRIFT-PREVENTING MOTION COMPENSATED PREDICTION Yen-Chi Lee, Yu cel Altunbasak, Russell Mersereau, Georgia Institute of Technology, United States
16:20	
WP-L2.7	JPEG2000 OVER NOISY COMMUNICATION CHANNELS - THE COST ANALYSIS ASPECT George Pavlidis, Apostolos Tsompanopoulos, Nikolaos Papamarkos, Christodoulos Chamzas, Cultural & Educational Technology Institute, Greece
16:40	
WP-L2.8	A NOVEL FIXED BIT PLANE ERROR RESILIENT IMAGE CODING FOR WIRELESS MULTIMEDIA TRANSMISSION Hung-Kuo Wei, Yew-San Lee, Yen-Hsu Shih, Chen-Yi Lee, National Chiao Tung University, Taiwan

Wednesday, 25 September 2002

WP-L3	WAVELET AND MULTIREOLUTION PROCESSING (Lecture) Time: Wednesday, 25 September 2002, 14:00 - 17:00 Place: Highland C Chair: J. Kovacevic, Lucent Technologies
14:00	
WP-L3.1	WAVELET-BASED ENHANCEMENT AND DENOISING USING MULTISCALE STRUCTURE TENSOR Paul Scheunders, University of Antwerp, Belgium
14:20	
WP-L3.2	A NEW COMPLEX-DIRECTIONAL WAVELET TRANSFORM AND ITS APPLICATION TO IMAGE DENOISING Ivan Selesnick, Polytechnic University, United States
14:40	
WP-L3.3	SUBBAND ADAPTIVE IMAGE DENOISING VIA BIVARIATE SHRINKAGE Levent Sendur, Ivan Selesnick, Polytechnic University, United States
15:00	
WP-L3.4	APPLICATIONS OF MULTI-WAVELET TECHNIQUES TO IMAGE DENOISING Erdem Bala, Aysin Ertuzun, Bogaziçi University, Turkey
15:20	
BREAK	
15:40	
WP-L3.5	MULTISCALE WEDGELET IMAGE ANALYSIS: FAST DECOMPOSITIONS AND MODELING Justin Romberg, Michael Wakin, Richard Baraniuk, Rice University, United States
16:00	
WP-L3.6	DIRECTIONAL WAVELET TRANSFORMS AND FRAMES Vladan Velisavljevic, Pier Luigi Dragotti, Martin Vetterli, Swiss Federal Institute of Technology (EPFL), Switzerland
16:20	
WP-L3.7	NONLINEAR BINARY WAVELET TRANSFORMS AND THEIR APPLICATION TO BINARY IMAGE COMPRESSION Lute Kamstra, Centrum voor Wiskunde en Informatica, Netherlands
16:40	
WP-L3.8	OVERCOMPLETE IMAGE CODING USING ITERATIVE PROJECTION-BASED NOISE SHAPING Tanya H. Reeves, Nick Kingsbury, University of Cambridge, United Kingdom

Wednesday, 25 September 2002

- WP-L4** **IMAGE SEQUENCE PROCESSING I (Lecture)**
Time: Wednesday, 25 September 2002, 14:00 - 17:00
Place: Highland D
- 14:00
WP-L4.1 **SEGMENTATION-BASED OBJECT TRACKING USING IMAGE WARPING AND KALMAN FILTERING**
Yu Huang, Thomas Huang, University of Illinois at Urbana-Champaign, United States; Heinrich Niemann, University of Erlangen-Nuremberg, Germany
- 14:20
WP-L4.2 **REGION TRACKING VIA LOCAL STATISTICS AND LEVELSET PDES**
Abdol-Reza Mansouri, Amar Mitiche, INRS-Télécommunications, Canada
- 14:40
WP-L4.3 **LONG TERM TRACKING USING BAYESIAN NETWORKS**
Arnaldo Abrantes, ISEL, Portugal; Jorge Marques, ISR/IST, Portugal; João Lemos, INESC, Portugal
- 15:00
WP-L4.4 **PARAMETRIC CONTOUR TRACKING USING UNSCENTED KALMAN FILTER**
Yunqiang Chen, Thomas Huang, University of Illinois at Urbana-Champaign, United States; Yong Rui, Microsoft Research, United States
- 15:20
BREAK
- 15:40
WP-L4.5 **INCOMPLETE MOTION FEATURE TRACKING ALGORITHM IN VIDEO SEQUENCES**
Zhongxiang Luo, Yueting Zhuang, Feng Liu, Yunhe Pan, Zhejiang University, China
- 16:00
WP-L4.6 **FAST TRACKING OF SEMANTIC VIDEO OBJECT BASED ON MOTION PREDICTION AND SUBREGION EXTRACTION**
Kun Zhou, Qionghai Dai, Jiang Wu, Guihua Er, Tsinghua University, China
- 16:20
WP-L4.7 **ROBUST CONTOUR EXTRACTION FOR MOVING VEHICLE TRACKING**
Zhimin Fan, Jie Zhou, Dashan Gao, Gang Rong, Tsinghua University, China
- 16:40
WP-L4.8 **ROBUST TRACKING OF HUMANS AND VEHICLES IN CLUTTERED SCENES WITH OCCLUSIONS**
Franco Oberti, Simona Calcagno, Michela Zara, Carlo Regazzoni, University of Genoa, Italy

Wednesday, 25 September 2002

- WP-L5** **WATERMARKING III (Lecture)**
Time: Wednesday, 25 September 2002, 14:00 - 17:00
Place: Highland E
Chair: I. Cox, NEC Research Institute
- 14:00
WP-L5.1 **TOWARD GENERIC IMAGE DEWATERMARKING?**
Christian Rey, Gwenael Doërr, Gabriella Csurka, Jean-Luc Dugelay, Eurécom Institute, France
- 14:20
WP-L5.2 **INTRUSIVE AND NON-INTRUSIVE WATERMARKING**
Hari Krishna V.J, K.R. Ramakrishnan, Indian Institute of Science, India
- 14:40
WP-L5.3 **ON STEGANALYSIS OF RANDOM LSB EMBEDDING IN CONTINUOUS-TONE IMAGES**
Sorina Dumitrescu, University of Western Ontario, Canada; Xiaolin Wu, Nasir Memon, Polytechnic University Brooklyn, United States
- 15:00
WP-L5.4 **IMAGE STEGANALYSIS WITH BINARY SIMILARITY MEASURES**
Ismail Avciabas, Uludag University, Turkey; Nasir Memon, Polytechnic University, United States; Bülent Sankur, Bogaziçi University, Turkey
- 15:20
BREAK
- 15:40
WP-L5.5 **LMS-BASED ATTACK ON WATERMARK PUBLIC DETECTORS**
Mohamed Mansour, Ahmed H. Tewfik, University of Minnesota, United States
- 16:00
WP-L5.6 **DYNAMIC WAVELET FEATURE-BASED WATERMARKING FOR COPYRIGHT TRACKING IN DIGITAL MOVIE DISTRIBUTION SYSTEMS**
Phoom Sagetong, University of Southern California, United States; Wensheng Zhou, HRL Laboratories, United States
- 16:20
WP-L5.7 **FOVEATED IMAGE WATERMARKING**
Alper Koz, A. Aydin Alatan, Middle East Technical University, Turkey
- 16:40
WP-L5.8 **WATERMARKING 3D MODELS**
Thomas Harte, Adrian Bors, The University of York, United Kingdom

Wednesday, 25 September 2002

WP-P1	VIDEO COMPRESSION (Poster) Time: Wednesday, 25 September 2002, 14:00 - 17:00 Place: Empire Hall North Area 1 Chair: R. Gray, Stanford University
WP-P1.1	RATE/DISTORTION-BASED COMBINATION OF MULTIPLE DCT TRANSFORMS FOR VIDEO CODING Stephane Valente, Philips Research, France
WP-P1.2	VIDEO RATE CONTROL USING CONDITIONAL MEAN Hyun Mun Kim, Hyung-Suk Kim, Tinku Acharya, Intel Corporation, United States
WP-P1.3	A COLOR VECTOR QUANTIZATION BASED VIDEO CODER Zhu Li, Motorola Laboratories, United States; Aggelos Katsaggelos, Northwestern University, United States
WP-P1.4	MATCHING PURSUITS VIDEO CODING USING GENERALIZED BIT-PLANES Rogério Caetano, Eduardo da Silva, Alexandre Ciancio, Universidade Federal do Rio de Janeiro, Brazil
WP-P1.5	ATOM MODULUS QUANTIZATION FOR MATCHING PURSUIT VIDEO CODING Christophe De Vleeschouwer, Université Catholique de Louvain, Belgium; Avideh Zakhor, University of California, Berkeley, United States
WP-P1.6	NEW DICTIONARY AND FAST ATOM SEARCHING METHOD FOR MATCHING PURSUIT REPRESENTATION OF DISPLACED FRAME DIFFERENCE Fulvio Moschetti, NTT DoCoMo, Inc., Japan; Lorenzo Granai, Pierre Vandergheynst, Swiss Federal Institute of Technology (EPFL), Switzerland; Pascal Frossard, IBM T.J. Watson Research Center, United States
15:20 BREAK 15:40	
WP-P1.7	CONFIGURABLE VARIABLE LENGTH CODE WITH GENETIC ALGORITHMS Ngai-Man Cheung, Yuji Itoh, Texas Instruments Japan, Ltd., Japan
WP-P1.8	AN INTEGRATED MULTIPLE-SUBSTREAM UNEQUAL ERROR PROTECTION AND ERROR CONCEALMENT ALGORITHM FOR INTERNET VIDEO APPLICATIONS Joohee Kim, Russell Mersereau, Yucl Altunbasak, Georgia Institute of Technology, United States
WP-P1.9	SCENE-DEPENDENT FREQUENCY WEIGHTING FOR SUBJECTIVE QUALITY IMPROVEMENT OF MPEG-4 FINE-GRANULARITY-SCALABILITY Sharon Peng, Mihaela van der Schaar, Philips Research USA, United States
WP-P1.10	MPEG-4 VIDEO OBJECT-BASED RATE ALLOCATION WITH VARIABLE TEMPORAL RATES Jeong-Woo Lee, Kwangju Institute of Science and Technology, Republic of Korea; Anthony Vetro, Mitsubishi Electric Research Laboratories, United States; Yao Wang, Polytechnic University, United States; Yo-Sung Ho, Kwangju Institute of Science and Technology, Republic of Korea
WP-P1.11	OPTIMAL MPEG-2 ENCODER DESIGN FOR LOW BIT-RATE HDTV DIGITAL BROADCASTING Sei Naito, Atsushi Koike, Masahiro Wada, Shuichi Matsumoto, KDDI R&D Laboratories Inc., Japan
WP-P1.12	MPEG-4 ONE-PASS VBR RATE CONTROL FOR DIGITAL STORAGE Ashish Jagmohan, Krishna Ratakonda, IBM T.J. Watson Research Center, United States

Wednesday, 25 September 2002

WP-P2	SCALABLE IMAGE AND VIDEO CODING (Poster) Time: Wednesday, 25 September 2002, 14:00 - 17:00 Place: Empire Hall North Area 2 Chair: H. Radha, Michigan State University
WP-P2.1	OPTIMAL PROTECTION ASSIGNMENT FOR SCALABLE COMPRESSED IMAGES Johnson Thie, David Taubman, The University of New South Wales, Australia
WP-P2.2	SCALABLE IMAGE TRANSMISSION USING RATE-COMPATIBLE IRREGULAR REPEAT ACCUMULATE (IRA) CODES Chingfu Lan, Krishna Narayanan, Zixiang Xiong, Texas A&M University, United States
WP-P2.3	HIGH PERFORMANCE FULL SCALABLE VIDEO COMPRESSION WITH EMBEDDED MULTIREOLUTION MC-3DSPiHT Zongping Zhang, Guizhong Liu, Yiwen Yang, Xi'an Jiaotong University, China
WP-P2.4	SCALABLE WAVELET VIDEO-CODING WITH IN-BAND PREDICTION - THE BOTTOM-UP OVERCOMPLETE DISCRETE WAVELET TRANSFORM Geert Van der Auwera, Adrian Munteanu, Peter Schelkens, Jan Cornelis, Vrije Universiteit Brussel, Belgium
WP-P2.5	SCALABLE WAVELET VIDEO-CODING WITH IN-BAND PREDICTION - IMPLEMENTATION AND EXPERIMENTAL RESULTS Yiannis Andreopoulos, Adrian Munteanu, Geert Van der Auwera, Peter Schelkens, Jan Cornelis, Vrije Universiteit Brussel/IMEC, Belgium
WP-P2.6	SCALABLE VIDEO CODING BY STREAM MORPHING James Macnicol, Michael Frater, John Arnold, The University of New South Wales, Australia
15:20 BREAK 15:40	
WP-P2.7	A DEGRESSIVE ERROR PROTECTION ALGORITHM FOR MPEG-4 FGS VIDEO STREAMING Xiaokang Yang, Ce Zhu, Zhengguo Li, Genan Feng, Si Wu, Laboratories for Information Technology, Singapore; Nam Ling, Santa Clara University, United States
WP-P2.8	FINE GRANULARITY IN MULTI-LOOP HYBRID CODERS WITH MULTI-LAYER SCALABILITY Marek Domanski, Slawomir Mackowiak, Lukasz Blaszak, Adam Luczak, Poznan University of Technology, Poland
WP-P2.9	OPTIMAL RATE ALLOCATION FOR MACROBLOCK-BASED PROGRESSIVE FINE GRANULARITY SCALABLE VIDEO CODING Hua Cai, The Hong Kong University of Science and Technology, Hong Kong SAR of China; Guobin Shen, Shipeng Li, Microsoft Research Asia, China; Bing Zeng, The Hong Kong University of Science and Technology, Hong Kong SAR of China
WP-P2.10	HIGHLY SCALABLE VIDEO COMPRESSION USING A LIFTING-BASED 3D WAVELET TRANSFORM WITH DEFORMABLE MESH MOTION COMPENSATION Andrew Secker, David Taubman, The University of New South Wales, Australia
WP-P2.11	IMPACT OF SCALABILITY IN VIDEO TRANSMISSION IN PROMOTION-CAPABLE DIFFERENTIATED SERVICES NETWORKS Eren Gurses, Gozde Bozdagi Akar, Middle East Technical University, Turkey; Nail Akar, Bilkent University, Turkey
WP-P2.12	ROBUST TRANSMISSION OF MPEG-4 SCALABLE VIDEO OVER 4G WIRELESS NETWORKS Mihaela van der Schaar, Joseph Meehan, Philips Research USA, United States

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- WP-P3** **SEGMENTATION V (Poster)**
Time: Wednesday, 25 September 2002, 14:00 - 17:00
Place: Empire Hall North Area 3
Chair: E. Saber, Xerox Corporation
- WP-P3.1** **DETECTION AND SEGMENTATION OF SWEEPS IN COLOR GRAPHICS IMAGES**
Salil Prabhakar, DigitalPersona Inc., United States; Hui Cheng, Sarnoff Corporation, United States; Raja Bala, John Handley, Ying-wei Lin, Xerox Corporation, United States
- WP-P3.2** **CERTAINTY COLOR MAPS COMPARED TO HISTOGRAMS**
Jean-Christophe Baillie, Sony Computer Science Lab, France
- WP-P3.3** **ADAPTIVE COLOR IMAGE SEGMENTATION USING MARKOV RANDOM FIELDS**
Slawo Wesolkowski, Paul Fieguth, University of Waterloo, Canada
- WP-P3.4** **ENCODING AND PROCESSING OF COLOR ENGRAVINGS (USING MRC)**
Vladimir Mistic, University of Rochester, United States; Robert Buckley, Xerox Corporation, United States; Kevin Parker, University of Rochester, United States
- WP-P3.5** **ADAPTIVE IMAGE SEGMENTATION BASED ON COLOR AND TEXTURE**
Junqing Chen, Thrasyvoulos Pappas, Northwestern University, United States; Aleksandra Mojsilovic, Bernice Rogowitz, IBM T.J. Watson Research Center, United States
- WP-P3.6** **UNSUPERVISED SEGMENTATION OF MULTISPECTRAL IMAGES USING EDGE PROGRESSION AND COST FUNCTION**
Mohammed Ali Roula, Ahmed Bouridane, Fatih Kurugollu, Abbas Amira, Queen's University of Belfast, United Kingdom
- 15:20
BREAK
15:40
- WP-P3.7** **ROBUST IMAGE CLASSIFICATION BASED ON A NON-CAUSAL HIDDEN MARKOV GAUSS MIXTURE MODEL**
Kyungsuk Pyun, Stanford University, United States; Chee Sun Won, Dongguk University, Republic of Korea; Johan Lim, Robert M. Gray, Stanford University, United States
- WP-P3.8** **A SKELETON BASED SHAPE MATCHING & RECOVERY APPROACH**
Lei He, Chia Han, Xun Wang, Xiaokun Li, William Wee, University of Cincinnati, United States
- WP-P3.9** **A METHOD FOR ESTIMATING AND ACCURATELY EXTRACTING THE EYEBROW IN HUMAN FACE IMAGE**
Qinran Chen, Wai-kuen Cham, Hung-tat Tsui, The Chinese University of Hong Kong, Hong Kong SAR of China
- WP-P3.10** **NONPARAMETRIC METHODS FOR IMAGE SEGMENTATION USING INFORMATION THEORY AND CURVE EVOLUTION**
Junmo Kim, John Fisher, Massachusetts Institute of Technology, United States; Anthony Yezzi, Georgia Institute of Technology, United States; Mujdat Cetin, Alan Willsky, Massachusetts Institute of Technology, United States
- WP-P3.11** **UNSUPERVISED IMAGE SEGMENTATION VIA MARKOV TREES AND COMPLEX WAVELETS**
Cián Shaffrey, Nick Kingsbury, University of Cambridge, United Kingdom; Ian Jermyn, INRIA Sophia-Antipolis, France
- WP-P3.12** **AUTOMATIC OBJECT SEGMENTATION IN IMAGES WITH LOW DEPTH OF FIELD**
Chee Sun Won, Dongguk University, Republic of Korea; Kyungsuk Pyun, Robert M. Gray, Stanford University, United States

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- WP-P4** **STEREOSCOPIC & 3-D PROCESSING II (Poster)**
Time: Wednesday, 25 September 2002, 14:00 - 17:00
Place: Empire Hall North Area 4
- WP-P4.1** **TERRAIN SURFACE MODELING FROM ALTIMETRIC DATA**
Matthieu Cord, Thomas Belli, ENSEA, France
- WP-P4.2** **MULTI-VIEW RECONSTRUCTION COMBINING UNDERWATER AND AIR SENSORS**
Jean-Marc Lavest, Frederic Guichard, Cedric Rousseau, Vision-IQ/Poseidon Technologies, France
- WP-P4.3** **GENERIC ATTRIBUTE DEVIATION METRIC FOR ASSESSING MESH SIMPLIFICATION ALGORITHM QUALITY**
Michael Roy, Sebti Fofou, Frédéric Truchetet, Université de Bourgogne, France
- WP-P4.4** **SIMULTANEOUS MESH SIMPLIFICATION AND NOISE SMOOTHING OF RANGE IMAGES**
David Page, Yiyong Sun, Andreas Koschan, Joonki Paik, Mongi Abidi, The University of Tennessee, United States
- WP-P4.5** **TRIANGLE MESH-BASED EDGE DETECTION AND ITS APPLICATION TO SURFACE SEGMENTATION AND ADAPTIVE SURFACE SMOOTHING**
Yiyong Sun, David Page, Joonki Paik, Andreas Koschan, Mongi Abidi, The University of Tennessee, United States
- WP-P4.6** **ANALYSIS OF AN ITERATIVE DYNAMIC PROGRAMMING APPROACH TO 2-D PHASE UNWRAPPING**
Lei Ying, University of Illinois at Urbana-Champaign, United States; Brendan Frey, University of Toronto, Canada; Ralf Koetter, David Munson, University of Illinois at Urbana-Champaign, United States
- 15:20
BREAK
15:40
- WP-P4.7** **FACIAL TRACKING WITH HEAD POSE ESTIMATION IN STEREO VISION**
Yu Huang, Thomas Huang, University of Illinois at Urbana-Champaign, United States
- WP-P4.8** **RELIABILITY MEASUREMENT OF DISPARITY ESTIMATES FOR INTERMEDIATE VIEW RECONSTRUCTION**
Liang Zhang, Demin Wang, Andre Vincent, Communications Research Centre, Canada
- WP-P4.9** **REGISTERING TWO OVERLAPPING RANGE IMAGES USING A RELATIVE REGISTRATION ERROR HISTOGRAM**
Marcos Rodrigues, Sheffield Hallam University, United Kingdom; Yonghui Liu, The University of Wales, United Kingdom
- WP-P4.10** **DISPARITY VARIATION IN STEREO-PANORAMIC VIDEO**
Stavros Tzavidas, Aggelos Katsaggelos, Northwestern University, United States
- WP-P4.11** **CONTENT-ADAPTIVE 3D MESH MODELING FOR REPRESENTATION OF VOLUMETRIC IMAGES**
Jovan Brankov, Yongyi Yang, Miles Wernick, Illinois Institute of Technology, United States
- WP-P4.12** **ORIENTATION COMPUTATION OF AN INCLINED TEXTURED PLANE: STUDY OF RESULTS FOR REGULAR MACRO TEXTURES.**
Justin Plantier, IMASSA, France; Sylvie Lelandais, University of Evry, France; Laurent Boutte, IMASSA, France
- WP-P4.13** **GAZE CORRECTION IN VIDEO COMMUNICATION WITH SINGLE CAMERA**
Insuh Lee, Byeungwoo Jeon, Sungkyunkwan University, Republic of Korea

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- WP-P5** **COMPUTER VISION IV** (Poster)
Time: Wednesday, 25 September 2002, 14:00 - 17:00
Place: Empire Hall North Area 5
Chair: R. Chellappa, University of Maryland
- WP-P5.1** **OPTIMUM CAMERA PLACEMENT BY ROBOT TEAMS IN UNSTRUCTURED FIELD ENVIRONMENTS**
Vivek Sujan, Massachusetts Institute of Technology, United States
- WP-P5.2** **AUTOMATIC CORRECTION OF WEAK RADIAL LENS DISTORTION IN SINGLE VIEWS OF URBAN SCENES USING VANISHING POINTS**
Christian Braeuer-Burchardt, Klaus Voss, Friedrich Schiller University Jena, Germany
- WP-P5.3** **A PRACTICAL APPROACH TO CREATING ENVIRONMENT MAPS USING DIGITAL IMAGES**
Shoupu Chen, Nathan Cahill, Lawrence Ray, Eastman Kodak Company, United States
- WP-P5.4** **ERROR ANALYSIS, MODELING, AND CORRECTION FOR 3-D RANGE DATA**
Xiaokun Li, Feng Gao, Bryan Everding, Lei He, William Wee, University of Cincinnati, United States
- WP-P5.5** **COMPLEX-VALUED WAVELET TRANSFORM APPLICATIONS IN PLANAR SHAPE PROTOTYPE GENERATION AND RECOGNITION**
Wen-Yao Chen, Wen-Liang Hwang, Academia Sinica, Taiwan
- WP-P5.6** **A MULTI-FRAME BASED MOTION ESTIMATION FOR SEMANTIC OBJECT TRACKING IN THE PRESENCE OF OCCLUSION**
Jean Gao, A. Kak, Purdue University, United States
- 15:20
BREAK
15:40
- WP-P5.7** **ON OPTIMAL SUBSPACE FOR APPEARANCE-BASED OBJECT RECOGNITION**
Qiang Wu, Advanced Digital Imaging Research, LLC., United States; Zhongmin Liu, Zixiang Xiong, Texas A&M University, United States; Yu-Ping Wang, Tiejhan Chen, Kenneth Castleman, Advanced Digital Imaging Research, LLC., United States
- WP-P5.8** **IMPLICITIZATION OF PARAMETRIC CURVES BY MATRIX ANNIHILATION**
Hulya Yalcin, Brown University, United States; Mustafa Unel, Yale University, United States; William Wolovich, Brown University, United States
- WP-P5.9** **A PROBABILISTIC SVM APPROACH FOR BACKGROUND SCENE INITIALIZATION**
Horng-Horng Lin, Tyng-Luh Liu, Academia Sinica, Taiwan; Jen-Hui Chuang, National Chiao Tung University, Taiwan
- WP-P5.10** **3D STRUCTURE FROM VIDEO STREAMS WITH PARTIALLY OVERLAPPING IMAGES**
Rui Guerreiro, Pedro Aguiar, ISR/IST, Portugal
- WP-P5.11** **ENTROPY BASED CAMERA CONTROL FOR VISUAL OBJECT TRACKING**
Matthias Zobel, Joachim Denzler, Heinrich Niemann, University Erlangen-Nürnberg, Germany

Wednesday, 25 September 2002

- WP-P6** **IMAGE INDEXING AND RETRIEVAL** (Poster)
Time: Wednesday, 25 September 2002, 14:00 - 17:00
Place: Empire Hall North Area 6
Chair: I. Sezan, Sharp Laboratories
- WP-P6.1** **FUZZY AGGREGATION OF IMAGE FEATURES IN CONTENT-BASED IMAGE RETRIEVAL**
Azadeh Kushki, Panagiotis Androustos, Konstantinos N. Plataniotis, Anastasios N. Venetsanopoulos, University of Toronto, Canada
- WP-P6.2** **SPIN-IT: A DATA CENTRIC ROUTING PROTOCOL FOR IMAGE RETRIEVAL IN WIRELESS NETWORKS**
Edward Woodrow, Wendi Heinzelman, University of Rochester, United States
- WP-P6.3** **DYNAMIC USE OF MAP IMAGES IN MOBILE ENVIRONMENT**
Pasi Fränti, Pavel Kopylov, Viktor Veis, University of Joensuu, Finland
- WP-P6.4** **INDI - INTELLIGENT DATABASE NAVIGATION BY INTERACTIVE AND INTUITIVE CONTENT-BASED IMAGE RETRIEVAL**
Tanja Kaempfe, Thomas Kaester, Michael Pfeiffer, Helge Ritter, Gerhard Sagerer, University of Bielefeld, Germany
- WP-P6.5** **FACE DETECTION USING COARSE-TO-FINE SUPPORT VECTOR CLASSIFIERS.**
Hichem Sabhi, INRIA, France; Donald Geman, The Johns Hopkins University, United States; Nozha Boujemaa, INRIA, France
- WP-P6.6** **COLOR TEXTURE MOMENTS FOR CONTENT-BASED IMAGE RETRIEVAL**
Hui Yu, Peking University, China; Mingjing Li, Hong-Jiang Zhang, Microsoft Research Asia, China; Ju-fu Feng, Peking University, China
- 15:20
BREAK
15:40
- WP-P6.7** **RETRIEVAL OF 3D PROTEIN STRUCTURES**
Shann-Ching Chen, Tshuan Chen, Carnegie Mellon University, United States
- WP-P6.8** **TEXTURE CLASSIFICATION THROUGH LEVEL LINES**
Hazem Hamdan, University of Minnesota, United States; Lee Larson, University of Louisville, United States
- WP-P6.9** **USING A PROBABILISTIC SOURCE MODEL FOR COMPARING IMAGES**
Rong Jin, Alex G. Hauptmann, Carnegie Mellon University, United States
- WP-P6.10** **ROBUST CORNER TRACKING FOR MULTIMEDIA APPLICATIONS**
Farahnaz Mohanna, Farzin Mokhtarian, University of Surrey, United Kingdom
- WP-P6.11** **MERGED-COLOR HISTOGRAM FOR COLOR IMAGE RETRIEVAL**
Ka-Man Wong, Chun-Ho Cheung, Lai-Man Po, City University of Hong Kong, Hong Kong SAR of China
- WP-P6.12** **A NEW IMAGE RETRIEVAL SYSTEM SUPPORTING QUERY BY SEMANTICS AND EXAMPLE**
JunWei Han, Lei Guo, Northwestern Polytechnical University, China
- WP-P6.13** **EDGE COLOR HISTOGRAM FOR IMAGE RETRIEVAL**
Seong-O Shim, Tae-Sun Choi, Kwangju Institute of Science and Technology, Republic of Korea

WP-P7	APPLICATIONS II (Poster) Time: Wednesday, 25 September 2002, 14:00 - 17:00 Place: Empire Hall North Area 7 Chair: J. Luo, Eastman Kodak Company
WP-P7.1	COMPRESSION OF CDNA AND INKJET MICROARRAY IMAGES Rebecka Jornsten, Bin Yu, Wei Wang, Kannan Ramchandran, University of California, Berkeley, United States
WP-P7.2	TRACKING OF FEATURE AND STROKE POSITIONS FOR OFF-LINE SIGNATURE VERIFICATION Bin Fang, The University of Hong Kong, Hong Kong SAR of China
WP-P7.3	PROGRESSIVE CODING OF ERROR DIFFUSED IMAGES Chul Soo Lee, HyunWook Park, Korea Advanced Institute of Science and Technology, Republic of Korea
WP-P7.4	AN ARCHITECTURE FOR DOCUMENT MANAGEMENT George Cavalcanti, Edson Filho, Universidade Federal de Pernambuco, Brazil
WP-P7.5	STRAIGHTENING WARPED TEXT LINES USING POLYNOMIAL REGRESSION Zheng Zhang, Chew Lim Tan, National University of Singapore, Singapore
WP-P7.6	A RECOGNITION ALGORITHM FOR CHINESE CHARACTERS IN DIVERSE FONTS Xianli Wu, Chinese Academy of Sciences, China; Min Wu, University of Maryland, United States
15:20 BREAK 15:40	
WP-P7.7	RING SHAPED OBJECT DETECTOR FOR NON-ISOTROPIC 2D IMAGES USING OPTIMIZED DISTANCE TRANSFORM WEIGHTS Mattias Aronsson, Ida-Maria Sintorn, Uppsala University, Sweden
WP-P7.8	REGISTRATION OF VERY TIME-DISTANT AERIAL IMAGES Vittorio Murino, Umberto Castellani, Alberto Etrari, Andrea Fusiello, University of Verona, Italy
WP-P7.9	APPLICATION OF IMAGE PROCESSING FOR THE CONSERVATION OF THE MEDIEVAL MOSAIC Barbara Zitová, Jan Flusser, Filip Sroubek, Academy of Sciences of the Czech Republic, Czech Republic
WP-P7.10	POLYNOMIAL FEATURES FOR ROBUST FACE AUTHENTICATION Conrad Sanderson, Kuldeep K. Paliwal, Griffith University, Australia
WP-P7.11	DETECTING CORTICAL ACTIVITIES FROM FMRI DATA USING THE STAP ALGORITHM Elizabeth A. Thompson, Purdue University, United States; Scott K. Holland, Vincent Schmithorst, Children's Hospital Medical Center, United States
WP-P7.12	BACKGROUND IDENTIFICATION BASED SEGMENTATION AND MULTILAYER TREE REPRESENTATION OF DOCUMENT IMAGES Hui Cheng, Sarnoff Corporation, United States; Zhigang Fan, Xerox Corporation, United States

A. B. da Silva, Eduardo	MA-P2.11
A. Finamore, Weiler	MA-P2.11
Abe, Keichi	TP-P4.4
Abe, Tomi	TP-P4.4
Abidi, Besma	MP-P5.11
Abidi, Mongi	MP-P5.11, WA-P3.3, WP-P4.4, WP-P4.5
Ablavsky, Vitaly	TA-P4.4
Abouleman, Glen	MP-L2.8
Abrantes, Arnaldo	WP-L4.3
Abu-Naser, Ahmad	TP-P5.2
Acharya, Tinku	TP-L4.2, WP-P1.2
Acton, Scott T.	WA-L5.8, WA-P3.2
Adachi, Eisuke	TA-P3.1
Adachi, Satoru	MP-P1.2
Agarwal, Sameer	TP-P1.10
Aguiar, Pedro	WP-P5.10
Ahmad, Subutai	TA-P6.8
Ahn, Byungha	TP-P3.12
Ahn, Chietek	TA-P2.12
Ahuja, Narendra	TA-L1.8, TA-P4.9, WA-P3.4
Aizawa, Kiyoharu	MA-P7.11, TP-L2.6, WA-P6.9
Akar, Gozde Bozdagi	MA-P3.10, WP-P2.11
Akar, Nail	WP-P2.11
Aksasse, Brahim	TP-P4.6
Alatan, A. Aydin	WP-L5.7
Aleksic, Petar	MP-P7.5
Allain, Marc	TP-P5.1
Allebach, Jan	MA-P7.2, MA-P7.4, MP-L5.5
Al-Regib, Ghassan	TA-P1.1
Altunbasak, Yucel	TA-P1.1, TP-P5.4, WP-L2.6, WP-P1.8
Amer, Aishy	MP-P4.11
Amidi, Omead	MP-L1.6
Amiell, Myriam	WA-L1.5
Amira, Abbas	WP-P3.6
Ando, Shigeru	MA-P3.4
Andreopoulos, Yiannis	WP-P2.5
Androustos, Panagiotis	WP-P6.1
Antonini, Marc	TA-P1.10, TA-P2.10, TP-P1.3
Apostolopoulos, John	TA-P1.8
Arce, Edgar	MP-P3.4
Ardizzone, Edoardo	TA-P4.11
Arifler, Dogu	MP-P5.1
Arigovindan, Muthuvel	MA-P5.11, WA-P5.6
Armspach, Jean-Paul	MP-P5.9
Arnold, John	WP-P2.6
Aronsson, Mattias	WP-P7.7
Ashton, Edward	WA-L5.7
Ashwin, A.C.	TP-P2.6
Atsalakis, Antonios	TA-P5.4
Attolico, Giovanni	WA-P4.2
Au, Oscar C.	TA-P3.8, WA-P5.9, WA-P7.11
Aubault, Olivier	WA-L1.3
Avciibas, Ismail	WP-L5.4
Averbuch, Amir	MP-P1.3
Aygin, Ramazan	TA-P3.5
Azimi, Mehran	WA-P1.2
Azimifar, Zohreh	MA-P5.3
Badawy, Wael	MP-P1.6
Baghdadi, Nicolas	WA-L4.2
Baillie, Jean-Christophe	WP-P3.2
Bajaj, Chandrajit	MP-P4.8
Bajic, Ivan V.	TA-P1.9
Bala, Erdem	WP-L3.4
Bala, Raja	WP-P3.1
Balado, Felix	TP-P6.3
Ban, Koichiro	MA-L1.5
Banerjee, Serene	WA-L3.3
Bang, Hoon	MP-P7.7
Bang, Sung Yang	TP-L4.7, WA-P4.4
Bani-hashemi, Ali	WA-L4.6
Bansal, Pankaj	TP-P2.2
Bansal, Ravi	WA-L4.6
Bao, Oliver	TA-P6.7

Baraniuk, Richard WA-P2.6, WP-L3.5
 Barlaud, Michel TA-L3.5, TA-P1.10, TP-P1.3, TP-P3.7
 Barrau, Eric MP-P2.4
 Bartolini, Franco TP-P7.10
 Baskurt, Atilla TA-P5.10
 Basu, Anup MA-P1.1, TP-P7.12
 Basu, Sankar MA-L5.5, MP-P7.9
 Batur, Aziz TP-P5.4
 Baudry, Severine TP-P6.2
 Bauer, Joachim WP-L1B.6
 Baumela, Luis MP-L3.2
 Bauschke, Heinz TP-P5.3
 Bayakovski, Yuri WA-L1.7
 Bayer, Micha TP-P4.5
 Bazanov, Peter MP-P6.6
 Beermann, Markus MA-L3.8
 Behrad, Alireza MP-L3.5
 Belli, Thomas WP-P4.1
 Bellon, Olga Regina Pereira MP-P3.6
 Belongie, Serge TP-P1.10
 Ben Hadj Miled, Mohamed Khames TP-L5.4
 Ben Hamza, A MA-P5.5
 Benitez, Ana MA-L5.3
 Benois-Pineau, Jenny MP-P2.11
 Berger, Martin WA-P4.10
 Berkner, Kathrin MA-P5.6, MA-P5.8
 Bern, Marshall MA-P6.3
 Bernués, Emiliano MA-P4.10
 Bery, Randall MP-L2.3, TA-L1.7
 Bertalmio, Marcelo MA-P4.4
 Berthoumieu, Yannick TA-P4.5, TP-P4.6
 Bertolino, Pascal WA-P6.1
 Bescós, Jesús TA-P6.2, TA-P6.4
 Bhagavathy, Sitaram MP-P5.4
 Bhalerao, Abhir TP-P7.3
 Bhanu, Bir MA-P3.6
 Bhattacharjya, Anoop MP-P4.4
 Bhattacharya, Bhargab B. TP-L4.2
 Bhunre, Piyush K. TP-L4.2
 Biemond, Jan TP-P5.7
 Bilgin, Ali MA-P2.2
 Bingabr, Mohamed MA-P2.10
 Birman, Shlomo WA-L1.6
 Bischof, Horst WA-P4.10
 Bishnu, Arijit TP-L4.2
 Blasiak, Dariusz MP-P1.5
 Blaszak, Lukasz WP-P2.8
 Blättermann, Gabi TP-L1.8
 Blu, Thierry WA-P5.5
 Blum, Rick MP-L1.5
 Bolle, Ruud MA-L2.4, TA-L1.3
 Bonneau, Robert MP-L2.8
 Bors, Adrian TA-P7.10, WP-L5.8
 Bose, Nirmal TP-P5.10
 Bosse, Michael WP-L1B.1
 Botello, Salvador MP-P3.4
 Boubakeur, Belaroussi MP-P3.9
 Boucher, Alain TA-P7.8
 Bouix, Sylvain TP-P7.5
 Boujemaa, Nozha TA-P5.7, TP-L4.8, WP-P6.5
 Boukraa, Mustapha MA-P3.4
 Boulgouris, Nikolaos WA-P7.2, WP-L2.4
 Bouges-Sévenier, Mikael WA-L1.1, WA-L1.2
 Bouridane, Ahmed WP-P3.6
 Boutte, Laurent WP-P4.12
 Bouville, Christian WA-L1.3
 Bouzardoum, Abdesselam MA-P3.9
 Boverman, Gregory TP-L5.6
 Bovik, Alan MA-P7.8, WA-L2.8, WA-L3.3
 Bovyrin, Alexander MP-P3.2
 Boznicovic, Nikola TA-P3.7
 Braeuer-Burchardt, Christian WP-P5.2
 Branca, Antonella WA-P4.2
 Brankov, Jovan MA-L4.1, TP-L5.3, WA-P7.10, WP-P4.11
 Braun, Gustav MA-L1.4
 Bresler, Yoram TA-P7.4, TA-P7.9
 Brill, Michael WA-L2.1

Brunello, Dania MA-L3.7
 Bruno, Marcelo MP-L3.1
 Bu, Jiajun WA-P6.11
 Buciu, Ioan WA-L4.5
 Buckley, Robert WP-P3.4
 Buenaposada, José Miguel MP-L3.2
 Bugatti, Alesandro MA-L5.3
 Bull, David MA-P6.7
 Burkhardt, Hans MP-P3.1
 Bustos, Harold Ivan Angulo TA-P7.2
 C. Shen, Helen WA-P4.11
 Caetano, Rogério WP-P1.4
 Cahill, Nathan WP-P5.3
 Cai, Hua WP-P2.9
 Cai, Jianfei MA-L3.3
 Cai, Min MA-L4.6
 Calcagno, Simona WP-L4.8
 Calic, Janko MP-P7.3
 Calvagno, Giancarlo MA-L3.7
 Campisi, Patrizio TP-P6.1, WA-L4.4
 Capella, Marisa MA-P4.10
 Capelle, Anne-Sophie TP-P3.10
 Carassoni, Marco WA-P4.3
 Carfagni, Monica TP-P7.10
 Carakcioglu, Abdurrahman MA-P6.2
 Carlbom, Ingrid MA-P3.11
 Carli, Marco WA-P7.4
 Carvalho, Murilo TP-P1.6
 Castañon, David TP-L5.5
 Castellani, Umberto WP-P7.8
 Castleman, Kenneth WP-P5.7
 Cavalcanti, George WP-P7.4
 Cavallaro, Andrea WA-P3.10
 Caviedes, Jorge WA-L2.5, WA-L2.7
 Celik, Mehmet TA-L5.8
 Cernekova, Zuzana WA-P6.4
 Cetin, Mujdat MA-L4.4, TA-P7.11, WP-P3.10
 Chai, Bing-Bing TA-P2.8
 Chai, Douglas MA-P3.9
 Challapali, Kiran MA-L3.5
 Cham, Wai-kuen WP-P3.9
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