



# DETAILED PROGRAM

Tuesday 11 September 2007

08:30 - 09:00 -- Registration

09:00 - 09:30 -- Opening

09:30 - 10:30 -- Keynote Speech: Prof. Rama Chellappa (Univ. Of Maryland - USA)

10:30 - 10:50 -- Coffee break

10:50 - 11:50 -- Oral session: Biometry I -- Session Chair: Paola Campadelli

10:50 - 11:10 **Collarette Area Localization and Asymmetrical Support Vector Machine for Efficient Iris Recognition**

Kaushik Roy, Prabir Bhattacharya  
*Concordia University, CA*

11:10 - 11:30 **Colour and Geometric based Model for Lip Localisation: Application for Lip-reading System**

Salah Werda, Walid Mahdi  
*MIRACL: Multimedia Information systems and Advanced Computing Laboratory, TN / ISIMS, TN*

11:30 - 11:50 **Dynamic Score Selection for Fusion of Multiple Biometric Matchers**

Roberto Tronci, Giorgio Giacinto, Fabio Roli  
*Università di Cagliari, IT*

11:50 - 12:50 -- Oral session: Theory I -- Session Chair: Fabio Roli

11:50 - 12:10 **Integrating Boundary Information in Pairwise Segmentation**

Andrea Torsello, Marco Di Gesu`, Marcello Pelillo  
*Università di Venezia, IT*

12:10 - 12:30 **Kernelised Relaxation Labelling using Fokker-Plank Diffusion**

Hong-Fang Wang, Edwin Hancock  
*University of York, UK*

12:30 - 12:50 **Spectral Generative Models for Graphs**

Richard Wilson, David White  
*University of York, UK*

10:30 - 12:50 -- Poster session: Theory II

**Learning Repetitive Patterns for Classifying Non-Rigidly Deforming Texture Surfaces**

Roman Filipovych, Eraldo Ribeiro  
*Florida Institute of Technology, US*

**Motion Estimation via Belief Propagation**

Paolo Napolitano, Giuseppe Boccignone, Angelo Marcelli, Mario Ferraro  
*Università di Salerno, IT / Università di Torino, IT*

**Performance evaluation of Scale-Interpolated Hessian-laplace detector and Haar Descriptor for feature matching**

Robert Laganiere, Akshay Bhatia, Gerhard Roth  
*University of Ottawa, CA / National Research Council of Canada, CA*

**Sparseness Achievement in Hidden Markov Models**

Manuele Bicego, Marco Cristani, Vittorio Murino  
*Università di Sassari, IT / Università di Verona, IT*

**Grey Weighted Polar Distance Transform for Outlining Circular and Approximately Circular Objects**

Kristin Norell, Joakim Lindblad, Stina Svensson  
*Swedish University of Agricultural Sciences, SE*

**Topology Preserving Marching Cubes-like Algorithms on the Face-Centered Cubic Grid**

Robin Strand, Peer Stelldinger  
*Uppsala University, SE / University of Hamburg, DE*

10:30 - 12:50 -- Poster session: Industrial Applications I

**A method of clustering combination applied to satellite image analysis**

Ivan Kyrgyzov, Henri Maitre, Marine Campedel  
*GET/Telecom Paris, FR*

**Ball Position and Motion Reconstruction from Blur in a Single Perspective Image**

Giacomo Boracchi, Vincenzo Caglioti, Alessandro Giusti  
*Politecnico di Milano, IT*

**Calibration and Image Generation of Mobile Projector-Camera Systems**

Koji Hamada, Jun Sato  
*Nagoya Institute of Technology, JP*

**Hybrid Stereo Sensor with Omnidirectional Vision Capabilities: Overview and Calibration Procedures**

Luca Mussi, Stefano Cagnoni, Monica Mordonini, Giovanni Adorni  
*Università di Perugia, IT / Università di Parma, IT*

**Image Spam Filtering Using Visual Information**

Battista Biggio, Giorgio Fumera, Ignazio Pillai, Fabio Roli  
*Università di Cagliari, IT*

**Localization of ahead vehicles with on-board stereo cameras**

Michele Zanin  
*FBK-irst, IT*

**Rectification of 3D Data Obtained from Moving Range Sensors by using Multiple View Geometry**

Kozuka Kazuki, Jun Sato  
*Nagoya Institute of Technology, JP*

**Subspace Reduction for Appearance-Based Navigation of a Mobile Robot**

Luis Paya, Oscar Reinoso, Asunción Vicente, Arturo Gil, Jose Manuel Pedrero  
*Miguel Hernández University, ES*

**Unwarping scanned image of Japanese/English documents**

Ali Zandifar  
*University of Maryland, US*

12:50 - 14:20 -- Lunch

14:20 - 15:40 -- Oral session: Surveillance and Security I -- Session Chair: Gian Luca Foresti

14:20 - 14:40 **A Dynamic Programming Technique for Classifying Trajectories**

Simone Calderara, Rita Cucchiara, Andrea Prati  
*Università di Modena e Reggio Emilia, IT*

14:40 - 15:00 **Detection and Monitoring of Passengers on a Bus by Video Surveillance**

Boon Chong Chee, Mihai Lazarescu, Tele Tan  
*Curtin University of Technology, AU*

15:00 - 15:20 **Object Tracking at Multiple Levels of Spatial Resolutions**

Son Tran, Larry Davis  
*University of Maryland, US*

15:20 - 15:40 **Video Objects Segmentation by Robust Background Modeling**

Andrea Colombari, Andrea Fusiello, Vittorio Murino  
*Università di Verona, IT*

15:40 - 16:00 -- Coffee break

16:00 - 17:00 -- Oral session: Biometry II -- Session Chair: Rama Chellappa

16:00 - 16:20 **Face Shape Reconstruction from Image Sequence Taken with Monocular Camera using Shape Database**

Hideo Saito, Yosuke Ito, Masaaki Mochimaru  
*Keio University, JP*

16:20 - 16:40 **Noise versus Facial Expression on 3D Face Recognition**

Chauã Queirolo, Maurício Segundo, Olga Bellon, Luciano Silva  
*Universidade Federal do Paraná, BR*

16:40 - 17:00 **Using geodesic distances for 2D-3D and 3D-3D face recognition**

Stefano Berretti, Alberto Del Bimbo, Pietro Pala, Francisco Jose Silva Mata  
*Università di Firenze, IT / Centro de Aplicaciones de Tecnologías de Avanzada, CU*

17:00 - 18:20 -- Oral session: Industrial Applications II -- Session Chair: Hideo Saito

17:00 - 17:20 **Optical Flow Computation on Compute Unified Device Architecture**

Yoshiki Mizukami, Katsumi Tadamura  
*Yamaguchi University, JP*

17:20 - 17:40 **Transformation invariant SOM clustering in Document Image Analysis**

Simone Marinai, Emanuele Marino, Giovanni Soda  
*Università di Firenze, IT*

17:40 - 18:00 **Verification of Handwritten Signatures: an Overview**

A. Ferrante, N. Greco, S. Impedovo, R. Modugno, G. Pirlo  
*Università di Bari, IT*

18:00 - 18:20 **Visual feature group matching for autonomous robot localization**

Emanuele Frontoni, Primo Zingaretti  
*Università Politecnica delle Marche, IT*

14:20 - 18:20 -- Poster session: Biometry III

**Automatic Video-based Analysis of Athlete Action**

Haojie Li, Shouxun Lin, Yongdong Zhang, Kun Tao  
*Institute of Computing Technology, Chinese Academy of Sciences, CN / ICT,CAS, CN*

**Becoming Visually Familiar**

Modesto Castrillón-Santana, Oscar Déniz-Suárez, Javier Lorenzo-Navarro, Daniel Hernández-Sosa  
*University of Las Palmas de Gran Canaria, ES*

**Block Independent Component Analysis for Face Recognition**

Lei Zhang, Quanxue Gao, David Zhang  
*The Hong Kong Polytechnic University, HK*

**Fingerprint scanner focusing estimation by Top Sharpening Index**

Annalisa Franco, Davide Maltoni, Matteo Ferrara  
*Università di Bologna, IT*

**Fingerprints Recognition Using Minutiae Extraction: a Fuzzy Approach.**

Anna Montesanto, Paola Baldassarri, Germano Vallesi, Guido Tascini  
*Università Politecnica delle Marche, IT*

**Generalization in Holistic versus Analytic Processing of Faces**

Manuele Bicego, Albert Salah, Enrico Grosso, Massimo Tistarelli, Lale Akarun  
*Università di Sassari, IT / CWI, NL / Bogazici University, TR*

**Human Computer Interaction: Legibility and Contrast**

Silvia Zuffi, Carla Brambilla, Giordano Beretta, Paolo Scala  
*Consiglio Nazionale delle Ricerche, IT / Hewlett-Packard Laboratories, Palo Alto, US*

**Real-time 3D Hand Shape Estimation based on Image Feature Analysis and Inverse Kinematics**

Weiyang Chen, Ryuji Fujiki, Daisaku Arita, Rin-ichiro Taniguchi  
*Kyushu University, JP*

**Real-time Gesture Recognition in Advanced Videocommunication Services**

Oliver Schreer, Seinghor Ngongang  
*Fraunhofer Institute for Telecommunications, DE / Heinrich-Hertz-Institut, DE*

**Score-level fusion of fingerprint and face matchers for personal verification under "stress" conditions**

Gian Luca Marcialis, Fabio Roli  
*Università di Cagliari, IT*

**Stereo-based 3D Face Modeling using Annealing in Local Energy Minimization**

Besma Abidi, Shafik Huq, Mongi Abidi  
*University of Tennessee, US*

14:20 - 18:20 -- Poster session: Industrial Applications III

**Automatic extraction of LIDAR data classification rules**

Primo Zingaretti, Emanuele Frontoni, Gianfranco Forlani, Carla Nardinocchi  
*Università Politecnica delle Marche, IT / Università di Parma, IT / Università di Roma "La Sapienza", IT*

**Automatic Handwriting Identification on Medieval Documents**

Marius Bulacu, Lambert Schomaker  
*University of Groningen, NL / Rijksuniversiteit, NL*

**D-Calib: Calibration Software for Multiple Cameras System**

Yuko Uematsu, Tomoaki Teshima, Hideo Saito, Cao Honghua  
*Keio University, JP*

**Efficient stereo vision for obstacle detection and AGV Navigation**

Rita Cucchiara, Emanuele Perini, Giuliano Pistoni  
*Università di Modena e Reggio Emilia, IT*

**Real-Time SLAM with a High-Speed CMOS Camera**

Peter Gemeiner, Wolfgang Ponweiser  
*Vienna University of Technology, AT*

**Reconstruction of a High Dynamic Range and High Resolution Image from a Multisampled Image Sequence**

Harald Haraldsson, Masayuki Tanaka, Masatoshi Okutomi  
*Tokyo Institute of Technology, JP*

18:20 - 19:00 -- Guided visit

19:00 - 20:00 -- Welcome cocktail

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Wednesday 12 September 2007

08:30 - 09:00 -- Registration

09:00 - 10:00 -- Keynote speech: Prof. Tsuhan Chen (Carnegie Mellon Univ., USA)

10:00 - 11:00 -- Oral session: Surveillance and Security II -- Session Chair: Andrea Prati

10:00 - 10:20 **A Nonlinear-Shift Approach to Object Tracking Based on Shape Information**

Majid Asadi, Andrea Beoldo, Carlo Regazzoni  
*Università di Genova, IT*

10:20 - 10:40 **An information theoretic rule for sample size adaptation in particle filtering**

Oswald Lanz  
*ITC-IRST, IT*

10:40 - 11:00 **Cooperative Object Tracking with Multiple PTZ Cameras**

Ivo Everts, Nicu Sebe, Graeme Jones  
*University of Amsterdam, NL / Kingston University, UK*

11:00 - 11:20 -- Coffee break

11:20 - 12:20 -- Oral session: Theory III -- Session Chair: Giuseppe Boccignone

11:20 - 11:40 **Adaptive uncertainty estimation for particle filter-based trackers**

Andrew Bagdanov, Alberto Del Bimbo, Fabrizio Dini, Walter Nunziati  
*Università di Firenze, IT*

11:40 - 12:00 **Multi-resolution Morse-Smale complexes for terrain modeling**

Emanuele Danovaro, Leila De Floriani, Maria Vitali  
*Università di Genova, IT / Free University of Bolzano, IT / University of Maryland, US*

12:00 - 12:20 **Surface Integration: Two Statistical Approaches**

William A. P. Smith, Edwin R. Hancock  
*University of York, UK*

12:20 - 13:20 -- Oral session: Biometry IV -- Session Chair: Larry Davis

12:20 - 12:40 **Distribution-Based Face Detection using Calibrated Boosted Cascade Classifier**

Hiromasa Takatsuka, Masayuki Tanaka, Masatoshi Okutomi  
*Tokyo Institute of Technology, JP*

12:40 - 13:00 **Reactive Learning Strategy for AsymBoost Based Face Detectors**

Ingrid Visentini, Christian Micheloni, Gian Luca Foresti  
*Università di Udine, IT / Università di Udine, IT*

13:00 - 13:20 **Video Biometrics**

Rama Chellappa, Gaurav Aggarwal  
*University of Maryland, US*

10:00 - 13:20 -- Poster session: Multimedia I

**A Novel Anchorperson Detection Algorithm Based on Spatio-temporal Slice**

Anan Liu, Sheng Tang, Yong-Dong Zhang, Jintao Li, Zhaoxuan Yang  
*Tianjin University, CN / Institute of Computing Technology, Chinese Academy of Sciences, CN*

**A robust measure for visual correspondence**

Federico Tombari, Luigi Di Stefano, Stefano Mattoccia  
*Università di Bologna, IT*

**A Video-Browsing-Enhanced Personal Video Recorder**

Ajay Divakaran, Isao Otsuka  
*Mitsubishi Electric Research Laboratories, US / ATC, Mitsubishi Electric Corporation, JP*

**Automatic generation of generic Bitstream Syntax Descriptions applied to H.264/AVC SVC encoded video streams**

Davy Van Deursen, Wesley De Neve, Davy De Schrijver, Rik Van de Walle  
*Ghent University - IBBT, BE*

**Bringing Mobile Map-Based Access to Digital Audio to the End User**

Robert Neumayer, Jakob Frank, Peter Hlavac, Thomas Lidy and Andreas Rauber  
*Vienna University of Technology, AT*

**Combining Features for Image Retrieval by Concept Lattice Querying and Navigation**

Giuseppe Amato, Carlo Meghini  
*Consiglio Nazionale delle Ricerche, IT*

**Effective color space representation for wavelet based compression of HDR images**

Masahiro Okuda, Nicola Adami  
*Faculty of Environmental Engineering, The University of Kitakyushu, Japan, JP / Università di Brescia, IT*

**Face3 a 2D+3D Robust Face Recognition System**

Alessandro Colombo, Claudio Cusano, Raimondo Schettini  
*Università di Milano - Bicocca, IT*

**Fast and Effective Features for Recognizing Recurring Video Clips in Very Large Databases**

Ina Döhring, Rainer Lienhart  
*University of Augsburg, DE*

**Fast Predictive Search Algorithm for Video Motion Estimation**

Lei Chun Chou, Cheng Da Ye, Liu Yuan Chen, Bin Cheng Jhao  
*National Taipei University of Education, TW*

10:00 - 13:20 -- Poster session: Biometry V

**A Framework of Calculus on Facial Surfaces**

Chafik Samir, Mohamed Daoudi, Anuj Srivastava  
*GET/INT, Telecom Lille1, FR*

**A trainable system for face detection in unconstrained environments**

Augusto Destrero, Francesca Odone, Alessandro Verri  
*Università di Genova, IT*

**analysis of 3D face reconstruction**

Hassan Amin Syed, Duncan Gillies  
*Imperial College London, UK*

**Automatic Detection of Facial Landmarks from AU-coded Expressive Facial Images**

Yulia Gizatdinova, Veikko Surakka  
*University of Tampere, FI*

**Automatic Lip Contour Detection Using Level Set Segmentation Method**

Abu Sayeed Md. Sohail, Prabir Bhattacharya  
*Concordia University, CA*

**Face and facial features detection for 3D face recognition under facial expression variations**

Maurício Segundo, Chauã Queirolo, Olga Bellon, Luciano Silva  
*Universidade Federal do Paraná, BR*

**Face, Ear and Fingerprint: Designing Multibiometric Architectures**

Andrea Abate, Michele Nappi, Maria De Marsico, Daniel Riccio  
*Università di Salerno, IT / Università di Roma "La Sapienza", IT*

**Gabor Saliency Map for Face Recognition**

Annalisa Franco, Raffaele Cappelli, Dario Maio  
*Università di Bologna, IT*

**Robust Face Matching Under Large Occlusions**

Georgy Gimel'farb, Patrice Delmas, John Morris, Al Shorin  
*University of Auckland, NZ*

**Robust Iris Localization and Tracking based on Constrained Visual Fitting**

Carlo Colombo, Dario Comanducci, Alberto Del Bimbo  
*Università di Firenze, IT*

13:20 - 14:30 -- Lunch

14:30 - 15:30 -- Keynote speech: Prof. Stan Sclaroff (Boston Univ., USA)

15:30 - 16:30 -- Oral session: Multimedia II -- Session Chair: Costantino Grana

15:30 - 15:50 **Adding Gestures to Ordinary Mouse Use: a New Input Modality for Improved Human-Computer Interaction**

Luca Lombardi, Marco Porta  
*Università di Pavia, IT*

15:50 - 16:10 **Semantic Video Search**

A.W.M. Smeulders, J.C. van Gemert, B. Huurnink, D.C. Koelma, O. de Rooij, K.E.A. van de Sande, C.G.M. Snoek,  
C.J. Vecaman, M. Worring  
*University of Amsterdam, NL*

16:10 - 16:30 **Appearance-based 3D object recognition with time-invariant features**  
Elisabetta Delponte, Nicoletta Noceti, Francesca Odone, Alessandro Verri  
*Università di Genova, IT*

16:30 - 16:50 -- Coffee break

16:50 - 18:10 -- Oral session: Theory IV -- Session Chair: Vittorio Murino

16:50 - 17:10 **Computing Epipolar Geometry from Unsynchronized Cameras**  
Ying Piao, Jun Sato  
*Nagoya Institute of Technology, JP*

17:10 - 17:30 **Fast extraction of multi-resolution Gabor features**  
Jarmo Ilonen, Joni Kämäräinen, Heikki Kälviäinen  
*Lappeenranta University of Technology, FI*

17:30 - 17:50 **On Genuine Connectivity Relations Based on Logical Predicates**  
Pierre Soille  
*EC JRC - Ispra, IT*

17:50 - 18:10 **Projective Transformations for Image Transition Animations**  
TzuYen Wong, Peter Kovsesi, Amitava Datta  
*University of Western Australia, AU*

15:30 - 18:10 -- Poster session: Surveillance and Security III

**A Framework for False Positive Suppression in Video Segmentation**

Min Han Tun, Geoff West, Tele Tan  
*Curtin University of Technology, AU*

**A Statistical Method for People Counting in Crowded Environments**

Massimiliano Bozzoli, Luigi Cinque, Enver Sangineto  
*Hypercube S.r.L., IT / Università di Roma "La Sapienza", IT*

**Alignment of videos recorded from moving vehicles**

Joan Serrat, Ferran Diego, F. Lumbreras, J.M. Alvarez  
*Universitat Autònoma de Barcelona, ES*

**An improvement of AdaBoost face-detection with motion and color information**

Vincenzo Randazzo, Lisa Usai  
*ELSAG SpA, IT*

**Detecting Major Segmentation Errors for a Tracked Person Using Colour Feature Analysis**

Christopher Madden, Massimo Piccardi  
*University of Technology, Sydney, AU*

**Exploiting Temporal Statistics for Events Analysis and Understanding**

Christian Micheloni, Lauro Snidaro, Claudio Piciarelli, Gian Luca Foresti  
*Università di Udine, IT*

**Human Appearance Change Detection**

Nagia Ghanem, Larry Davis  
*University of Maryland, US*

**Moving Object Detection for Real-Time Applications**

Lucia Maddalena, Alfredo Petrosino  
*Consiglio Nazionale delle Ricerche, IT / Università di Napoli "Parthenope", IT*

**Panoramic mosaicing optimization**

Lionel Robinault, Stéphane Bres, Serge Miguet  
*Université Lyon 2, FR*

**Sight enhancement through video fusion in a surveillance system**

Andrea Masini, Francesco Branchitta, Marco Diani, Giovanni Corsini  
*Università di Pisa, IT*

**Video Surveillance and SOS Request**

Roberto Marmo, Virginio Cantoni, Marco Zemblini  
*Università di Pavia, IT*

**Vision-based monitoring of pedestrian crossings**

Rean I. Fedriga, Alessandra Fascioli, Stefano Ghidoni  
*Università di Parma, IT*

16:30 - 19:00 -- GIRPR meeting

20:00 - 23:00 -- GALA DINNER

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*Thursday 13 September 2007*

08:30 - 09:00 -- Registration

09:00 - 10:00 -- Keynote speech: Prof. Prabir Bhattacharya (Concordia Univ., Canada)

10:00 - 11:00 -- Oral session: Multimedia III -- Session Chair: Nicu Sebe

10:00 - 10:20 **Document Image Mosaicing with Mobile Phones**

Jari Hannuksela, Pekka Sangi, Janne Heikkilä, Xu Liu, David Doermann  
*University of Oulu, FI*

10:20 - 10:40 **Improving the accuracy of automatic tennis video annotation by high level grammar**

I. Kolonias, J. Kittler, W.J. Christmas, F. Yan  
*University of Surrey, UK*

10:40 - 11:00 **Shape Indexing through Laplacian Spectra**

Fatih Demirci, Remco C. Veltkamp, Reinier van Leuken  
*Utrecht University, NL*

11:00 - 11:20 -- Coffee break

11:20 - 12:20 -- Oral session: Theory V -- Session Chair: Mario Vento

11:20 - 11:40 **A method for blur and similarity transform invariant object recognition**

Ville Ojansivu, Janne Heikkilä  
*University of Oulu, FI*

11:40 - 12:00 **Corner Displacement from Motion Blur**

Giacomo Boracchi, Vincenzo Caglioti  
*Politecnico di Milano, IT*

12:00 - 12:20 **Rigid Image Registration based on Pixel Grouping**

Dimitrios Gerogiannis, Christophoros Nikou, Aristidis Likas  
*University of Ioannina, GR*

12:20 - 13:20 -- Oral session: Theory VI -- Session Chair: Prabir Bhattacharya

12:20 - 12:40 **A Consistency Result for the Normalized Eight-Point Algorithm**

Wojciech Chojnacki, Michael Brooks  
*University of Adelaide, AU*

12:40 - 13:00 **An Uncalibrated View-Synthesis Pipeline**

Andrea Fusiello, Luca Irsara  
*Università di Verona, IT*

13:00 - 13:20 **Vanishing Point Detection in Complex Man-made Worlds**

Horst Wildenauer, Markus Vincze  
*Vienna University of Technology, AT*

10:00 - 13:20 -- Poster session: Theory VII

**Facing Imbalanced Classes through Aggregation of Classifiers**

Mario Molinara, Maria Teresa Ricamato, Francesco Tortorella  
*Università di Cassino, IT*

**A High Performance Exact Histogram Specification Algorithm**

Alessandro Bevilacqua, Pietro Azzari  
*Università di Bologna, IT*

**Characterising Range Image Features via Gradient Operators**

Sonya Coleman, Shanmugalingam Suganthan, Bryan Scotney  
*University of Ulster, UK*

**Cosegmentation for Image Sequences**

Dong Seon Cheng, Mario Figueiredo  
*Università di Verona, IT / Instituto Superior Técnico, PT*

**Fast convergence for spectral clustering**

Marco Aiello, Andreozzi Francesco, Ezio Catanzariti, Francesco Isgro, Matteo Santoro  
*Università di Napoli "Federico II", IT*

**Integrated Edge and Corner Detection**

Sonya Coleman, Bryan Scotney, Dermot Kerr  
*University of Ulster, UK*

**Multidimensional Histogram Equalization**

Anthony McCollum, William Clocksin  
*Oxford Brookes University, UK*

**Parsing Silhouettes without Boundary Curvature**

Ralf Juengling, Lakshman Prasad  
*Portland State University, US / Los Alamos National Laboratory, US*

**Surface Segmentation through Concentrated Curvature**

Mohammed Mostefa Mesmoudi, Leila De Floriani, Emanuele Danovaro, Umberto Port  
*Mostaganem, DZ / Università di Genova, IT / Free University of Bolzano, IT / University of Maryland, US*

**Tensor Voting Fields: Direct Votes Computation and New Saliency Functions**

Paola Campadelli, Gabriele Lombardi  
*Università di Milano, IT*

## 10:00 - 13:20 -- Poster session: Medical Imaging I

**A Hybrid Multi-Expert Systems for HEp-2 Staining Pattern Classification**

Paolo Soda, Giulio Iannello  
*Università Campus Biomedico, Roma, IT*

**CT-PET Landmark-based Registration Using a Dynamic Lung Model**

Antonio Moreno, Sylvie Chambon, Anand Santhanam, Jannick Rolland, Elsa Angelini, Isabelle Bloch  
*Ecole Nationale Supérieure des Telecommunications, FR / ODALab, US / University of Central Florida, US*

**Two-way interactive refinement of segmented medical volumes**

Alberto Signoroni, Riccardo Leonardi  
*Università di Brescia, IT*

## 13:20 - 14:30 -- Lunch

## 14:30 - 15:30 -- Oral session: Theory VIII -- Session Chair: Edwin Hancock

14:30 - 14:50 **Efficient and optimal block matching for motion estimation**

Stefano Mattocchia, Federico Tombari, Luigi Di Stefano, Marco Pignoloni  
*Università di Bologna, IT*

14:50 - 15:10 **Evaluating Classification Reliability for Combining Classifiers**

Pasquale Foggia, Gennaro Percannella, Carlo Sansone, Mario Vento  
*Università di Napoli "Federico II", IT / Università di Salerno, IT*

15:10 - 15:30 **Orientation Adaptive Discrete Packet Wavelet Decomposition via Shifting Operators for Image Compression**

Stefano Andriani, David Taubman  
*Università di Padova, IT / University of New South Wales, AU*

## 15:30 - 15:50 -- Coffee break

## 15:50 - 17:10 -- Oral session: Medical Imaging II -- Session Chair: Luigi Cinque

15:50 - 16:10 **A new and reliable Poisson noise estimator for radiographic images**

Iuri Frosio, Mirko Lucchese, Alberto Borghese  
*Università di Milano, IT*

16:10 - 16:30 **Automatic liver segmentation from abdominal CT scans**

Elena Casiraghi, Paola Campadelli, Gabriele Lombardi  
*Università di Milano, IT*

16:30 - 16:50 **Edge Tracking of subjective contours in Biomedical Imaging**

Giovanni Garibotto, Valentina Garibotto  
*ELSAG SpA, IT / Università di Milano "Bicocca", IT*

16:50 - 17:10 **Multi-modal non-rigid registration of medical images based on mutual information maximization**

Edoardo Ardizzone, Orazio Gambino, Marco La Cascia, Liliana Lo Presti, Roberto Pirrone  
*Università di Palermo, IT*

## 14:30 - 17:10 -- Poster session: Theory IX

**Using Bayesian Network for Combining Classifiers**

Claudio De Stefano, Angelo Marcelli, Alessandra Scotto di Freca, Ciro D'Elia  
*Università di Cassino, IT / Università di Salerno, IT*

**A Clustering Approach to Object Estimation,**

Luca Bianchi, Alessandro Martinelli  
*Università di Pavia, IT*

**A New Stereo Algorithm Integrating Luminance, Gradient and Segmentation Informations in a Belief-Propagation Framework**

Massimiliano Spertino, Giuseppe Pettiti, Luca Piovano, Nello Balossino, Maurizio Lucenteforte  
*Consiglio Nazionale delle Ricerche, IT / Università di Torino, IT*

**Computation of Binary Objects Sides Number using Discrete Geometry, Application to Automatic Pebbles Shape Analysis**

Tristan Roussillon, Laure Tougne, Isabelle Sivignon  
*University of Lyon, FR*

**Image Enhancement Using Elastic Manifolds**

Vadim Ratner, Yehoshua Zeevi  
*Technion - Israel Institute of Technology, IL*

**Matching Relational Structures using the Edge-Association Graph**

Andrea Torsello, Andrea Albarelli, Marcello Pelillo  
*Università di Venezia, IT*

14:30 - 17:10 -- Poster session: Multimedia IV

**A System for the Automatic Identification of Music Works**

Nicola Orio  
*Università di Padova, IT*

**Interval-Based Linear Hybrid Dynamical System for Modeling Cross-Media Timing Structures in Multimedia Signals**

Hiroaki Kawashima, Takashi Matsuyama  
*Kyoto University, JP*

**K-dimensional Size Functions for Shape Description and Comparison**

Silvia Biasotti, Daniela Giorgi, Andrea Cerri  
*Consiglio Nazionale delle Ricerche, IT / Università di Bologna, IT*

**Natural scenes categorization by hierarchical extraction of typicality patterns**

Alessandro Perina, Marco Cristani, Vittorio Murino  
*Università di Verona, IT*

**Object-Based Indexing of Compressed Video Content: from SD to HD Video**

C. Morand, J. Benois-Pineau, J.-Ph. Domenger and B. Mansencal  
*University of Bordeaux I, FR*

**Quality Assessment of Gaussian Blurred Images Using Symmetric Geometric Moments**

Chong-Yaw Wee, Raveendran Paramesran, Ramakrishnan Mukundan  
*University of Malaya, MY / University of Canterbury, NZ*

**Query translation based on equivalence classes for heterogeneous multimedia repositories using XML and semantic annotation**

Marco Aguzzi, Maria Grazia Albanesi, Marco Ferretti, Mauro Garlaschelli  
*Università di Pavia, IT*

**Recording, Indexing, Summarizing, and Accessing Meeting Videos: An Overview of the AMI Project**

Alejandro Jaimes, Herve Bourlard, Steve Renals  
*IDIAP Research Institute, CH / University of Edinburgh, UK*

**Segmenting Moving Objects in MPEG Videos in the Presence of Camera Motion**

Ralph Ewerth, Martin Schwalb, Paul Tessmann, Bernd Freisleben  
*University of Marburg, DE*

**SIFT Features Tracking for Video Stabilization**

Sebastiano Battiato, Giovanni Gallo, Giovanni Puglisi, Salvo Scellato  
*Università di Catania, IT*

**Wavelet domain watermark embedding strategy**

Achraf Makhoulfi, A. Ouled Zaid, A. Bouallegue  
*ENIT School, SYSCOM Laboratory, TN*

**Window Detection in Facades**

Haider Ali, Christin Seifert, Nitin Jindal, Lucas Paletta, Gerhard Paar  
*Vienna University of Technology, AT / Joanneum Research, AT*

18:00 - 18:30 -- VMDL opening

18:30 - 22:00 -- Keynote speech: Prof. Edward Y. Chang (Google, China)

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