



13th International Conference on Image Analysis and Processing
Cagliari (Italy), September 6-8 2005
Conference Centre "Centro della Cultura e dei Congressi"

Preliminary Program



Monday 5 September

Hotel Panorama - **Conference room "Bonaria"**.

Tutorials

09,30 – 13,00

Application of Computer Vision Technologies to Intelligent Vehicles

Alberto Broggi

14,30 – 18,30

Biometric Systems

Raffaele Cappelli

17,30 – 19,30

Conference registration

Registration desk at Palazzo dei Congressi (main conference building)

Tuesday 6 September

08.00 – 08.40	Registration	
08.40 – 09.10	Opening remarks	
09.10 – 10.10	Keynote talk How to make Business with Computer Vision technology <i>Giovanni Garibotto</i>	
10.10 – 10.30	Coffee Break	
10.30 – 10.40	Spotlights (Poster Session A) Pattern recognition for computer network security	
10.40 – 11.40	Special Session Pattern recognition for computer network security	
11.40 – 11.55	Spotlights (Poster Session A) Computer vision for augmented reality and computer augmented environments	
12.00 – 13.00	Special Session Computer vision for augmented reality and computer augmented environments	
13.00 – 14.30	Lunch	
13.30 – 14.30	Poster Preview Poster Session A	
14.30 – 15.30	Keynote talk Unsupervised Symbol Grounding and Cognitive Bootstrapping in Cognitive Vision <i>Josef Kittler</i>	
15.30 – 15.50	Spotlights (Poster Session A) Low and middle level processing, image analysis	
15.50 – 16.10	Coffee Break	Poster Session A Low and middle level processing, image analysis Pattern recognition for computer network security Computer vision for augmented reality and computer augmented environments
16.10 – 17.30	Oral Session 1 Low and middle level processing	
18.00	Welcome cocktail	

Wednesday 7 September

08.00 – 08.40	Registration	
08.40 – 09.40	Keynote talk Single View Face Reconstruction Using Shape-From-Shading <i>Edwin Hancock, Will Smith and Mario Castelan</i>	
09.40 – 10.00	Spotlights (Poster Session B) Video and image analysis, multimedia systems, learning and pattern recognition	
10.00 – 10.20	Coffee Break	Poster Session B Video and image analysis, multimedia systems, learning and pattern recognition
10.20 – 11.40	Oral Session 2 Feature extraction and image analysis	
11.40 – 13.00	Oral Session 3 Graphs and shape	
13.00 – 14.30	Lunch	
14.30 – 15.30	Keynote talk Biometric Recognition: How Do I Know Who You Are? <i>Anil K. Jain</i>	
15.30 – 15.50	Coffee Break	
15.50 – 17.10	Oral Session 4 Learning and recognition	
17.10	Guided tour	GIRPR Meeting
20.30	Social Dinner	

Thursday 8 September

08.30 – 09.30	Keynote talk Interactive, Mobile, Distributed Pattern Recognition <i>George Nagy</i>	
09.30 – 09.50	Spotlights (Poster Session C) 3D, Stereo, Computer Vision, Applications	
09.50 – 10.20	Coffee Break	Poster Session C 3D, Stereo, Computer Vision, Applications
10.20 – 11.40	Oral Session 5 3D and stereo vision	
11.40 – 13.00	Oral Session 6 Video processing and multimedia systems	
13.00 – 14.30	Lunch	
14.30 – 15.50	Oral Session 7 Biometrics applications	
15.50 – 17.10	Oral Session 8 Applications	
17.10	Conference closing	

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08,40 – 09,10 Opening remarks

09,10 – 10,10 Keynote talk

How to make Business with Computer Vision technology
Giovanni Garibotto

10,10 – 10,30 Coffee Break

10,30 – 10,40 Spotlights (Poster Session A)

Pattern recognition for computer network security

Learning Intrusion Detection: Supervised or Unsupervised?
Pavel Laskov, Patrick Dussel, Christin Schafer and Konrad Rieck

Network Intrusion Detection by Combining One-class Classifiers
Giorgio Giacinto, Roberto Perdisci and Fabio Roli

Combining Genetic-Based Misuse and Anomaly Detection for Reliably Detecting Intrusions in Computer Networks
I. Finizio, C. Mazzariello and C. Sansone

10,40 – 11,40 Special Session (Talks)

Pattern recognition for computer network security

EnFilter: a Password Enforcement and Filter Tool Based on Pattern Recognition Techniques
Giancarlo Ruffo and Francesco Bergadano

Analyzing TCP Traffic Patterns Using Self Organizing Maps
Stefano Zanero

Conceptual Analysis of Intrusion Alarms
Benjamin Morin and Hervé Debar

11,40 – 12,00 Spotlights (Poster Session A)

Computer Vision for Augmented Reality and Computer Augmented Environments

Simplification of Fan-Meshes Models for Fast Rendering of Large 3D Point-Sampled Scenes
Xiaotian Yan, Fang Meng and Hongbin Zha

Camera Self-localization Using Uncalibrated Images to Observe Prehistoric Paints in a Cave
Tommaso Gramegna, Grazia Cicirelli, Giovanni Attolico and Arcangelo Distanto

A Multimodal Perceptual User Interface for Collaborative Environments
Giancarlo Iannizzotto, Francesco La Rosa, Carlo Costanzo and Pietro Lanzafame

Robust Correspondenceless 3-D Iris Location for Immersive Environments
Emanuele Trucco, Tom Anderson, Marco Razeto and Spela Ivekovic

Input and Display of Hand Drawn Pattern onto Planar Board of Arbitrary Position and Pose Utilizing a Projector and Two Cameras
Hideo Saito and Hitoshi Ban

12,00 – 13,00 Special Session (Talks)

Computer Vision for Augmented Reality and Computer Augmented Environments

Computer Vision for Interactive Skewed Video Projection
Alessandro Brazzini and Carlo Colombo

Real-time Avatar Animation Steered by Live Body Motion
Oliver Schreer, Ralf Tanger, Peter Eisert, Peter Kauff, Bernhard Kaspar and Roman Englert

Vision-based Registration for Augmented Reality with Integration of Arbitrary Multiple Planes
Yuko Uematsu and Hideo Saito

13,00 – 14,30 Lunch

13,30 – 14,30 Poster Preview (Poster session A)

Tuesday 6 September (continued)

14,30 – 15,30 Keynote talk

Unsupervised Symbol Grounding and Cognitive Bootstrapping in Cognitive Vision
Josef Kittler

15,30 – 15,50 Spotlights (Poster Session A)

Low and middle level processing, image analysis

Contour Co-occurrence Matrix - a Novel Statistical Shape Descriptor
Rami Rautkorpi and Jukka Iivarinen

Seeded Watersheds for Combined Segmentation and Tracking of Cells
Amalka Pinidiyaarachchi and Carolina Wahlby

Image Segmentation Evaluation by Techniques of Comparing Clusterings
Xiaoyi Jiang, Cyril Marti, Christophe Irniger and Horst Bunke

Statistical Modeling of Huffman Tables Coding
S. Battiato, C. Bosco, A. Bruna, G. Di Blasi and G. Gallo

Kernel Based Symmetry Measure
Bertrand Zavidovique and Vito Di Gesù

Estimation of Moments of Digitized Objects with Fuzzy Borders
Natasa Sladoje and Joakim Lindblad

Feature Matching and Pose Estimation Using Newton Iteration
Hongdong Li and Richard Hartley

Image Segmentation Based on Genetic Algorithms Combination
Vito Di Gesù and Giosuè Lo Bosco

15,50 – 16,10 Coffee Break

15,50 – 17,30 Poster Session A

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Pattern recognition for computer network security

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Vito Di Gesù and Giosuè Lo Bosco

The Spiral Method Applied to the Study of the Microcalcifications in Mammograms
Sergio Vitulano, Andrea Casanova and Valentina Savona

Tuesday 6 September

15,50 – 17,30 Poster Session A (continued)

Image Segmentation through Dual Pyramid of Agents

K. Idir, H. Merouani and Y. Tlili

Uncertainty Analysis of Camera Parameters Computed With a 3D Pattern

Carlos Ricolfe-Viala and Antonio-José Sanchez-Salmeron

A Comparison of 2-D Moment-based Description Techniques

Cecilia Di Ruberto and Andrea Morgera

A Compact System for Real-time Detection of Line Segments

Nozomu Nagata and Tsutomu Maruyama

A New Wavelet-Domain HMTseg Algorithm for Remotely Sensed Image Segmentation

Qiang Sun, Biao Hou and Li-cheng Jiao

Frequency Determined Homomorphic Unsharp Masking Algorithm on Knee MR Images

Edoardo Ardizzone, Roberto Pirrone and Orazio Gambino

Texture Analysis of CT Images for Vascular Segmentation: a Revised Run Length Approach

Barbara Podda and Andrea Giachetti

Document Image De-Warping Based on Detection of Distorted Text Lines

Lothar Mischke and Wolfram Luther

Discrete 3D Tools Applied to 2D Grey-level Images

Gabriella Sanniti di Baja, Ingela Nystrom and Gunilla Borgefors

Slant Correction of Vehicle License Plate Image

Lin Liu, Sanyuan Zhang, Yin Zhang and Xiuzi Ye

Total Variation-based Speckle Reduction Using Multi-grid Algorithm for Ultrasound Images

Chen Sheng, Yang Xin, Yao Liping and Sun Kun

Segmentation in Echocardiographic Sequences Using Shape-based Snake Model

Chen Sheng, Yang Xin, Yao Liping and Sun Kun

An Algorithm for Binary Image Segmentation using Polygonal Markov Fields

Rafal Kluszczynski, Marie-Colette van Lieshout and Tomasz Schreiber

Algorithms for Detecting Clusters of Microcalcifications in Mammograms

Claudio Marrocco, Mario Molinara and Francesco Tortorella

Easy-to-use Object Selection by Color Space Projections and Watershed Segmentation

Per Holting and Carolina Wählby

Time and Date OCR in CCTV Video

Ginés García-Mateos, Andrés García-Meroño, Cristina Vicente-Chicote, Alberto Ruiz and Pedro E. López-de-Teruel

Removing Line Scratches in Digital Image Sequences by Fusion Techniques

Giuliano Laccetti, Lucia Maddalena and Alfredo Petrosino

Fingerprint Image Segmentation Method Based on MCMC & GA

Xiaosi Zhan, Zhaocai Sun, Yilong Yin and Yun Chen

Unsupervised Segmentation of Text Fragments in Real Scenes

Leonardo M. B. Claudino, Antônio de P. Braga, Arnaldo de A. Araújo and André F. Oliveira

Fast Edge Preserving Picture Recovery by Finite Markov Random Fields

Michele Ceccarelli

High Speed Computation of the Optical Flow

Hiroaki Niitsuma and Tsutomu Maruyama

UBIRIS: A Noisy Iris Image Database

Hugo Proença and Luís A. Alexandre

Skin Detection in Videos in the Spatial-Range Domain

Javier Ruiz-del-Solar, Rodrigo Verschae and Daniel Kottow

Tuesday 6 September

15,50 – 17,30 Poster Session A (continued)

Enhancement of Noisy Images with Sliding Discrete Cosine Transform
Vitaly Kober and Erika Margarita Ramos Michel

Autonomous Operators for Direct Use on Irregular Image Data
S.A. Coleman and B.W. Scotney

Texture Granularities
Paul Southam and Richard Harvey

Learning Intrusion Detection: Supervised or Unsupervised?
Pavel Laskov, Patrick Dussel, Christin Schafer and Konrad Rieck

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Hideo Saito and Hitoshi Ban

16,10 – 17,30 Oral Session 1

Low and middle level processing

A Novel Segmentation Strategy Based on Colour Channels Coupling
Alberto Ortiz and Gabriel Oliver

A Kalman Filter Based Background Updating Algorithm Robust to Sharp Illumination Changes
Stefano Messelodi, Carla Maria Modena, Nicola Segata and Michele Zanin

Greedy Algorithm for Local Contrast Enhancement of Images
Kartic Subr, Aditi Majumder and Sandy Irani

Probabilistic Model-based Background Subtraction
V. Krüger, J. Anderson and T. Prehn

Wednesday 7 September

08,00 – 08,40 Registration

08,40 – 09,40 Keynote talk

Single View Face Reconstruction Using Shape-From-Shading
Edwin Hancock, Will Smith and Mario Castelan

09.40 – 10.00: Spotlights (Poster Session B)

Video and image analysis, multimedia systems, learning and pattern recognition

An Object Interface for Interoperability of Image Processing Parallel Library in a Distributed Environment

Andrea Clematis, Daniele D'Agostino and Antonella Galizia

An Improved Algorithm for Anchor Shot Detection

M. De Santo, G. Percannella, C. Sansone and M. Vento

Incorporating Geometry Information with Weak Classifiers for Improved Generic Visual Categorization

Gabriela Csurka, Jutta Willamowski, Christopher R. Dance and Florent Perronnin

Order Independent Image Compositing

Conrad Bielski and Pierre Soille

Conversion Scheme for DCT-domain Transcoding of MPEG-2 to H.264/AVC

Joo-kyong Lee and Ki-dong Chung

Commute Times, Discrete Green's Functions and Graph Matching

Huajun Qiu and Edwin R. Hancock

Markovian Energy-based Computer Vision Algorithms on Graphics Hardware

Pierre-Marc Jodoin, Max Mignotte, Jean-François St-Amour

A Novel Genetic Programming Based Approach for Classification Problems

L. P. Cordella, C. De Stefano, F. Fontanella and A. Marcelli

10,00 – 10,20 Coffee Break

10,20 – 11,40 Poster Session B

Video and image analysis, multimedia systems, learning and pattern recognition

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A Novel Genetic Programming Based Approach for Classification Problems

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Content Based Image Retrieval Using a Metric in a Perceptual Colour Space

G. Tascini and A. Montesanto

Vehicle Detection and Tracking for Traffic Monitoring

Gian Luca Foresti and Lauro Snidaro

Wednesday 7 September

10,20 – 11,40 Poster Session B (continued)

Theoretical and Algorithmic Framework for Hypergraph Matching
Horst Bunke, Peter Dickinson and Miro Kraetzl

Hybrid Surface - and Voxel-based Registration for MR-PET Brain Fusion
Ho Lee and Helen Hong

Classification of Natural Images Using Supervised and Unsupervised Classifier Combinations
Leena Lepistö, Iivari Kunttu, Jorma Autio and Ari Visa

Scatter Search Particle Filter for 2D Real-Time Hands and Face Tracking
Juan José Pantrigo, Antonio S. Montemayor and Raúl Cabido

Accuracy of MLP Based Data Visualization Used in Oil Prices Forecasting Task
Aistis Raudys

Image-Based Relighting of Moving Objects with Specular Reflection
Hanhoon Park, Jong-Il Park and Sang Hwa Lee

A Novel Watermarking Algorithm for Image Authentication: Robustness Against Common Attacks and JPEG2000 Compression
Marco Aguzzi, Maria Grazia Albanesi and Marco Ferretti

Hierarchical Associative Memories: The Neural Network for Prediction in Spatial Maps
Jana Štanclová and Filip Zavoral

Soccer Videos Highlight Prediction and Annotation in Real Time
M. Bertini, A. Del Bimbo and W. Nunziati

Volume Estimation from Uncalibrated Views Applied to Wound Measurement
B. Albouy, S. Treuillet, Y. Lucas and J.C. Pichaud

Automatic Recognition of Road Sign Passo-Carrabile
Luca Lombardi, Roberto Marmo and Andrea Toccalini

Automatic Roadway Geometry Measurement Algorithm Using Video Images
Yichang (James) Tsai, Jianping Wu, Yiching Wu and Zhaohua Wang

Probabilistic Detection and Tracking of Faces in Video
G. Boccignone, V. Caggiano, G. Di Fiore and A. Marcelli

Estimating the ROC Curve of Linearly Combined Dichotomizers
Claudio Marrocco, Mario Molinara and Francesco Tortorella

Modeling of Elastic Articulated Objects and Its Parameters Determination from Image Contours
Hailang Pan, Yuncai Liu and Lei Shi

A Video Watermarking Procedure Based on XML Documents
Franco Frattolillo and Salvatore D'Onofrio

Improved Face Shape Recovery and Re-illumination Using Convexity Constraints
Mario Castelán and Edwin R. Hancock

Kernel Spectral Correspondence Matching Using Label Consistency Constraints
Hongfang Wang and Edwin R. Hancock

Consistent Labeling for Multi-camera Object Tracking
Simone Calderara, Andrea Prati, Roberto Vezzani and Rita Cucchiara

Half-Pixel Correction for MPEG-2/H.264 Transcoding
Soon-young Kwon, Joo-kyong Lee and Ki-dong Chung

Wednesday 7 September (continued)

10.20 – 11.40 Oral Session 2

Feature extraction and image analysis

A New Efficient Method for Producing Global Affine Invariants
Esa Rahtu, Mikko Salo and Janne Heikkilä

Color Fourier Descriptor for Defect Image Retrieval
Iivari Kunttu, Leena Lepistö, Juhani Rauhamaa and Ari Visa

Face Recognition Using a Surface Normal Model
W.A.P. Smith and E.R. Hancock

A Robust Two Stage Approach for Eye Detection
Jing-Wein Wang and Chin-Chun Kuo

11.40 – 13.00 Oral Session 3

Graphs and shape

Efficient Shape Matching Using Weighted Edge Potential Functions
Minh-Son Dao, Francesco G.B. DeNatale and Andrea Massa

Geometric Characterisation of Graphs
Bai Xiao and Edwin R. Hancock

An Approximation of the Maximal Inscribed Convex Set of a Digital Object
Gunilla Borgefors and Robin Strand

Shape Image Retrieval Using Elastic Matching Combined with Snake Model
Chen Sheng and Yang Xin

13.00 – 14.30 Lunch

14.30 – 15.30 Keynote talk

Biometric Recognition: How Do I Know Who You Are?
Anil K. Jain

15.30 – 15.50 Coffee Break

15.50 – 17.10 Oral Session 4

Learning and recognition

Graph-based Multiple Classifier Systems - A Data Level Fusion Approach
Michel Neuhaus and Horst Bunke

Machine Learning on Historic Air Photographs for Mapping Risk of Unexploded Bombs
Stefano Merler, Cesare Furlanello and Giuseppe Juman

Facial Expression Recognition Based on The Belief Theory: Comparison With Different Classifiers
Z. Hammal, L. Couvreur, A. Caplier and M. Rombaut

A Neural Adaptive Algorithm for Feature Selection and Classification of High Dimensionality Data
Elisabetta Binaghi, Ignazio Gallo, Mirco Boschetti and P. Alessandro Brivio

17.10 Guided tour GIRPR Meeting

20,30 Social dinner

Thursday 8 September

08.30 – 09.30 Keynote talk

Interactive, Mobile, Distributed Pattern Recognition
George Nagy

9.30 - 9.50: Spotlights (Poster Session C)

3D, Stereo, Computer Vision, Applications

Curvature Correlograms for Content Based Retrieval of 3D Objects
G.Antini, S.Berretti, A.Del Bimbo and P.Pala

Security Enhancement of Visual Hashes through Key Dependent Wavelet Transformations
Albert Meixner and Andreas Uhl

Landmark-based Stereo Vision
Giovanni B. Garibotto and Marco Corvi

Rectification-free Multibaseline Stereo for Non-ideal Configurations
Hongdong Li and Richard Hartley

Optimal Parameter Estimation for MRF Stereo Matching
R. Gherardi, U. Castellani, A. Fusiello and V. Murino

3D Surface Reconstruction of a Moving Object in the Presence of Specular Reflection
Atsuto Maki

Dynamic Photometric Stereo
Melvyn Smith and Lyndon Smith

Fitting 3D Cartesian Models to Faces Using Irradiance and Integrability Constraints
Mario Castelán and Edwin R. Hancock

09,50 – 10,20 Coffee Break

09.50 - 11.40 Poster Session C

3D, Stereo, Computer Vision, Applications

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Fitting 3D Cartesian Models to Faces Using Irradiance and Integrability Constraints
Mario Castelán and Edwin R. Hancock

3D Functional Models of Monkey Brain Through Elastic Registration of Histological Sections
Fabio Bettio, Francesca Frexia, Andrea Giachetti, Enrico Gobbetti, Gianni Pintore and Gianluigi Zanetti

Asymmetric 3D/2D Processing: A Novel Approach for Face Recognition
Daniel Riccio and Jean-Luc Dugelay

Score Selection Techniques for Fingerprint Multi-Modal Biometric Authentication
Giorgio Giacinto, Fabio Roli and Roberto Tronci

Thursday 8 September

09.50 - 11.40 Poster Session C (continued)

Clustering Improvement for Electrocardiographic Signals
Pau Micó, David Cuesta and Daniel Novák

Discrete Conformal Shape Representation and Reconstruction of 3D Mesh Objects
Hongdong Li, Richard Hartley and Hans Burkhardt

A System to Support the Integrated Management of Diagnostic Medical Images
Andrea F. Abate, Rosanna Cassino, Gabriele Sabatino and Maurizio Tucci

An Application of Neural and Probabilistic Unsupervised Methods to Environmental Factor Analysis of Multi-Spectral Images
Luca Pugliese, Silvia Scarpetta, Anna Esposito and Maria Marinaro

3-D Face Modeling From Two Views and Grid Light
Lei Shi, Xin Yang and Hailang Pan

An Autonomous Surveillance Vehicle for People Tracking
C. Piciarelli, C. Micheloni and G.L. Foresti

Study of the Navigation Parameters in Appearance-based Navigation of a Mobile Robot
Luis Payá, Oscar Reinoso, Arturo Gil, Nicolás García, María Asunción Vicente

SVM Based Regression Schemes for Instruments Fault Accommodation in Automotive Systems
Domenico Capriglione, Claudio Marrocco, Mario Molinara and Francesco Tortorella

Using Strings for On-Line Handwriting Shape Matching: a New Weighted Edit Distance
Claudio De Stefano, Marco Garruto, Luis Lapresa and Angelo Marcelli

Automatic Updating of Urban Vector Maps
S. Ceresola, A. Fusiello, M. Bicego, A. Belussi and V. Murino

Face Verification Advances Using Spatial Dimension Reduction Methods: 2DPCA & SVM
Licesio J. Rodríguez-Aragón, Cristina Conde, Ángel Serrano and Enrique Cabello

Environment Topological Structure Recognition for Robot Navigation
Enver Sangineto and Marco R. Iarusso

Rectangular Traffic Sign Recognition
Roberto Ballerini, Luigi Cinque, Luca Lombardi and Roberto Marmo

Face and Facial Feature Localization
Paola Campadelli, Raffaella Lanzarotti, Giuseppe Lipori and Eleonora Salvi

Multi-stage Combination of Geometric and Colorimetric Detectors for Eyes Localization
Maurice Milgram, Rachid Belaroussi and Lionel Prevost

Qualitative Real-Time Range Extraction for Preplanned Scene Partitioning Using Laser Beam Coding
Didi Sazbon, Zeev Zalevsky and Ehud Rivlin

Computing Homographies from Three Lines or Points in an Image Pair
G. López-Nicolás, J.J. Guerrero, O.A. Pellejero and C. Sagüés

The Virtual Point Light Source Model The Practical Realisation of Photometric Stereo for Dynamic Surface Inspection
Lyndon Smith and Melvyn Smith

Mammogram Analysis Using Two-Dimensional Autoregressive Models: Sufficient or Not?
Sarah Lee and Tania Stathaki

3D Surface Reconstruction from Scattered Data Using Moving Least Square Method
Soon-Jeong Ahn, Jaechil Yoo, Byung-Gook Lee and Joon-Jae Lee

Improving SIFT-based Object Recognition for Robot Applications
Patricio Loncomilla and Javier Ruiz-del-Solar

Thursday 8 September (continued)

10.20– 11.40 Oral Session 5 3D and Stereo Vision

3D Database Population from Single Views of Surfaces of Revolution
C. Colombo, D. Comanducci, A. Del Bimbo and F. Pernici

3D Face Modeling Based on Structured-light Assisted Stereo Sensor
Boulbaba Ben Amor, Mohsen Ardabilian and Liming Chen

Large Baseline Matching of Scale Invariant Features
Elisabetta Delponte, Francesco Isgrò, Francesca Odone and Alessandro Verri

Real-time 3D Hand Shape Estimation Based on Inverse Kinematics and Physical Constraints
Ryuji Fujiki, Daisaku Arita and Rin-ichiro Taniguchi

11.40– 13.00 Oral Session 6 Video processing and multimedia systems

Lightweight Protection of Visual Data Using High-Dimensional Wavelet Parametrization
Andreas Pommer and Andreas Uhl

Shot Detection and Motion Analysis for Automatic MPEG-7 Annotation of Sports Videos
Giovanni Tardini, Costantino Grana, Rossano Marchi and Rita Cucchiara

Efficient Hardware Architecture for EBCOT in JPEG 2000 Using a Feedback Loop From the Rate Controller to the Bit-plane Coder
Grzegorz Pastuszak

Tracking Soccer Ball in TV Broadcast Video
Kyuhyoung Choi and Yongduek Seo

13.00– 14.30 Lunch

14.30 – 15.50 Oral Session 7 Biometrics applications

Robust Face Recognition Based on Part-based Localized Basis Images
Jongsun Kim and Juneho Yi

Combining Multiple Matchers for Fingerprint Verification: A Case Study in FVC2004
J. Fierrez-Aguilar, Loris Nanni, J. Ortega-Garcia, Raffaele Cappelli and Davide Maltoni

Classifier Combination for Face Localization in Color Images
Rachid Belaroussi, Lionel Prevost and Maurice Milgram

3D Face Matching Using the Surface Interpenetration Measure
Olga R.P. Bellon, Luciano Silva and Chauã C. Queirolo

15.50 – 17.10 Oral Session 8 Applications

Track Matching by Major Color Histograms Matching and Post-Matching Integration
Eric Dahai Cheng and Massimo Piccardi

Robust Particle Filtering for Object Tracking
Daniel Rowe, Ignasi Rius, Jordi González and Juan J. Villanueva

A Correlation-Based Approach to Recognition and Localization of the Preceding Vehicle in Highway Environments
A. Broggi, P. Cerri and S. Ghidoni

Statistical Displacement Analysis for Handwriting Verification
Yoshiki Mizukami, Katsumi Tadamura, Mitsu Yoshimura and Isao Yoshimura

17.10 Conference closing