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Virginio Cantoni, Univ. of Pavia - I
Dimo Dimov, IICT-BAS, Sofia - BG

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Porta Marco, Univ. of Pavia, I
Ribaric Slobodan, Univ. of Zagreb, HR
Venkov Pencho, Tech.Univ. of Sofia, BG

Invited Speakers

Massimo Tistarelli, Univ. of Sassari, I
Andrzej Drygajlo, Lausanne Fed.Inst. of Tech., CH
Mark Nixon, Univ. of Southampton, UK
Chang-Tsun Li, Univ. of Warwick, UK

Scientific Secretary

Alessandra Setti, Univ. of Pavia, I

BEST STUDENT PAPER AWARD
(sponsored by the Group of Italian Researchers in Pattern Recognition - GIRPR) conferred in recognition of the originality of the research, the quality of the presentation and the contribution to the biometrics developments.

23 June 2014

08:30 - 09:15 Registration
09:15 Welcome message

Session 1: Gait and behaviour analysis
09:30 Invited lecture: Gait and soft biometrics
Mark Nixon (Univ. of Southampton, UK)
10:30 Human classification using gait features
Elena Gianaria, Marco Grangetto, Maurizio Lucenteforte, Nello Balossino (Univ. of Torino, Italy)
10:55 Using mutual information for multi-anchor tracking of human beings
Silvio Barra (Univ. of Cagliari, Italy), Virginio Cantoni (Univ. of Pavia, Italy), Maria De Marsico (Sapienza Univ. of Rome, Italy), Daniel Riccio (Univ. of Napoli Federico II, Italy)
11:20 11:35

11:35 A Framework for Fast Low-Power Multi-Sensor 3D Scene Capture and Reconstruction
Aleksandra Chuchvara, Mihail Georgiev, Atanas Gotchev (3D Media Group, Department of Signal Processing, Tampere University of Technology)

Session 2: Iris analysis
12:00 Iris detection through watershed segmentation
Alessio Ferone (Univ. of Napoli Parthenope, Italy), Maria Frucci (CNR, Napoli, Italy), Alfredo Petrosino (Univ. of Napoli Parthenope, Italy), Gabriella Sanniti di Baja (CNR, Napoli, Italy)
12:25 Fast iris recognition on smartphone by means of spatial histograms
Andrea F. Abate, Michele Nappi, Fabio Narducci, Stefano Ricciardi (Univ. of Salerno Italy)
12:50 A contourlet transform based for features fusion in retina an iris multimodal biometric system
Morteza Modarresi, Iman Sheikh Oveis (Islamic Azad Univ., Tehran, Iran)
13:15 15:00

Session 3: Speech recognition
15:00 Invited lecture: From speaker recognition to forensic speaker recognition
Andrzej Drygajlo (Lausanne Fed. Inst. of Tech., Switzerland)
16:00 Noisy speech endpoint detection using MD feature
Atanas Ouzounov (IICT-BAS, Sofia, Bulgaria)
16:25 16:40

Session 4: 3D ear recognition
16:40 Appearance-based 3D object approach to human ears recognition
Dimo Dimov (IICT-BAS, Sofia, Bulgaria), Virginio Cantoni (Univ. of Pavia, Italy)
17:05 3D ear analysis by an EGI representation
Virginio Cantoni (Univ. of Pavia, Italy), Dimo Dimov (IICT-BAS, Sofia, Bulgaria), Atanas Nikolov (IICT-BAS, Sofia, Bulgaria)
19:30 cocktail party
REGISTRATION:
academic  120,00 Euro
industrial  150,00 Euro
students    70,00 Euro.
Early registration (by June 16th, 2014) with a 25% reduction.

VENUE. The workshop takes place in the main campus of the Bulgarian Academy of Sciences, in Sofia, in the Hotel "Dom na Uchenia", 50, Shipchenski Prohod Blvd.

in the framework of AComIn
Advanced Computing
for Innovation

in conjunction with the
European COST Action - IC1106
Integrating Biometrics and Forensics for the Digital Age

24 June 2014

Session 5: Face and facial attributes analysis
09:30 Invited lecture: Biometrics in Forensics science: challenges, lessons and new technologies
Massimo Tistarelli (Univ. of Sassari, Italy)
10:30 Facial expression classification using supervised descent method combined with PCA and SVM
Agata Manolova, Nikolay Neshov, Stanislav Panev (Technical University of Sofia, Bulgaria)
10:55 Human gaze tracking with an active multi-camera system
Stanislav Panev, Agata Manolova, Ognian Boumbarov (Technical University of Sofia, Bulgaria)
11:20 11:40

Session 6: Handwriting and signature recognition
11:40 Effect of handwriting changes on the possibilities for computerized handwriting examination
Dobrin Nestorov, Detelina Georgieva (RIFSC – Mol, Bulgaria)
12:05 Neural network and kNN classifiers for on-line signature verification
Desislava Boyadzieva, Georgi Gluhchev (IICT-BAS, Sofia, Bulgaria)
12:30 14:30

Session 7: Multimodal and soft biometrics
14:30 Invited lecture: People identification and tracking through fusion of face and gait features
Chang-Tsun Li (Univ. of Warwick, UK)
15:30 Pupil size as a biometric trait
Nahumi Nugrahaningsih, Marco Porta (Univ. of Pavia, Italy)
15:55 16:10
16:10 Analysing soft clothing biometrics for retrieval
Emad Sami Jaha (King Abdulaziz Univ., Jeddah, Saudi Arabia and Univ. of Southampton, United Kingdom), Mark S. Nixon (Univ. of Southampton, United Kingdom)
16:35 On the application of biometric techniques for locating damaged artworks
Andreas Lanitis, Nicolas Tsapatsoulis, Anastasios Maronidis (Cyprus Univ. of Technology)
17:00 Multifractal analysis of posturograms of young and elderly persons
Peter Dojnow (IGIC-BAS, Bulgaria)
17:25 Conclusions
19:30 Farewell dinner