TIMETABLE AT A GLANCE

Sunday, July 7, 2013

Place: Rectorate Hall

19:30– 22:00	Get together cocktail

Monday, July 8, 2013

8:00 – 9:00	Registration
9:00 – 9:30	Opening ceremony
9:30 – 10:15	Plenary lecture 1 – Michael UNSER
10:15 – 11:00	Tutorial: Yo SONG - HU
11:00 – 11:30	Coffee break
11:30 – 13:50	Conference sessions (S1 – S2)
13:50 – 15:20	Lunch
15:20 – 17:40	Conference sessions (S3 – S4)
19:30 – 22:00	Dinner - "Terasa Doamnei" (Terrace of the Lady)

Tuesday, July 9, 2013

9:00 – 9:45	Lecture 2 – Eduard DELP
9:45 – 10:30	Lecture 3 – Mos KAVEH
10:30 – 11:00	Coffee break
11:00 – 13:00	Conference sessions (S5– S6)
13:00 – 14:30	Lunch
14:30 – 15:30	Conference sessions (S7– S8)
15:30 – 15:45	Coffee break
15:45 – 16:00	Awards Ceremony
19:30 – 22:00	Dinner – Howard Johnson Grand Place Hotel

Wednesday, July 10, 2013   Conference Visits

MINISTERUL
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NAȚIONALE

ANCS

region 8
IEEE

Romania
Section
IEEE

PROGRAMME

Monday, 8 July 2013

Place: University Rectorate Hall (2nd floor)

8:00 – 9:00	**Registration**

University Senate Hall

9:00 – 9:30	**Opening Ceremony**

Chair: Corneliu BURILEANU, University "Politehnica" of Bucharest, Romania
Time: 9:00 to 11:00 , July 8, Monday
Place: University Senate Hall
Presentation Type: Lecture and Tutorial

9:30 – 10:15	**Lecture 1** **Sparse stochastic processes: A statistical framework for modern signal processing** Michael UNSER
10:15 – 11:00	**Tutorial** **3DTV: Technical Challenges for Realistic Experiences** Ho YO-SONG

Place: University Rectorate Hall (2th floor)

11:00-11:30	**Coffee Break**

Presentation Type: Conference sessions

Time	**Chair:** Radu DOBRESCU, University "Politehnica" of Bucharest, Romania **Session 1-- Image and video processing and coding** *Place: University Senate Hall*	**Chair:** Mihai POPESCU, University "Politehnica" of Bucharest, Romania **Session 2 – Systems** *Place: University AN 010 Amphitheatre*
11:30 – 11:50	**Enhancing Stereo Matching with Varying Illumination Through Histogram Information and Normalized Cross Correlation** Mohammed BAYDOUN and Mohamad Adnan AL-ALAOUI - *invited paper*	**Face recognition using Gabor filters, PCA and Neural Networks** Marijeta SLAVKOVIC, Branimir RELJIN, Ana GAVROVSKA and Milan MILIVOJEVIC
11:50– 12:10	**Optimal Vision System Design for Characterization of Apples Using UV/VIS/NIR Spectroscopy Data** Sara SHARIFZADEH, Mabel ARTINEZ VEGA, Line Harder CLEMMENSEN and Bjarne Kjær ERSBØLL	**On the Best Adaptive Model for Web Services Response Time Prediction** Razvan Daniel ALBU, Florin POPENTIU and Ioan FELEA
12:10 – 12:30	**K-S Entropy of Images** Tuan PHAM	**Reliability in the Utility Computing Era: Towards Reliable Fog Computing** Henrik MADSEN, Grigore ALBEANU, Bernard BURTSCHY and Florin POPENTIU
12:30 – 12:50	**Sketch-Based Image Retrieval by Shape Points Description in Support Regions** Houssem CHATBRI and Keisuke KAMEYAMA	**Towards Expressive Romanian Speaking 3D Avatars for Multimedia Interfaces** Mihai Daniel ILIE, Amelia CIOBANU, Cristian NEGRESCU and Dumitru STANOMIR
12:50– 13:10	**Recognizing Intensity Degrees from Expressions in 3D Facial Meshes** Angel SANCHEZ, Ana Belen MORENO, Jose Francisco VELEZ and Aura CONCI	**A Joint of Adaptive Predictors for Electric Load Forecasting** Iulian NASTAC, Anatoli Paul ULMEANU, Rodica TUDUCE and Paul Dan CRISTEA

13:10– 13:30	**Limitations of Vehicle Length Estimation Using Stereoscopic Video Analysis** Tomasz GRAJEK, Robert RATAJCZAK, Krzysztof WEGNER and Marek DOMANSKI	**Music Genre Recognition Based on Visual Features with Dynamic Ensemble of Classifiers Selection** Yandre COSTA, Luiz OLIVEIRA, Alessandro KOERICH and Fabien GOUYON
13:30– 13:50	**On Efficient Use of Wavelet In Infrared Image Database** Marcel Sheeny de MORAES, Aura CONCI, Tiago Bonini BORCHARTT and Carlos KUBRUSLY	**Gender Recognition from Faces Using Bandlet and Local Binary Patterns** Ghulam MUHAMMAD, Faten A. ALOMAR, Muhammad HUSSAIN, Anwar M. MIRZA, Hatim ABOALSAMH and George BEBIS

Place: University Rectorate Hall (2th floor)

13:50 – 15:20	**Lunch**

Presentation Type: Conference sessions

Time	**Chair:** Simona HALUNGA, University "Politehnica" of Bucharest, Romania **Session 3 -- Image and video processing and coding (2)** *Place: University Senate Hall*	**Chair:** Octavian FRATU, University "Politehnica" of Bucharest, Romania **Session 4 – Systems (2)** *Place: University AN 010 Amphitheatre*
15:20– 15:40	**Automatic Background Subtraction in a Sparse Representation Framework** Ciprian DAVID and Vasile GUI	**Modeling the Energy Consumption of HEVC Intra Decoding** Christian HERGLOTZ, Dominic SPRINGER, Andrea EICHENSEER, and André KAUP - *invited paper*
15:40 – 16:00	**Efficient Disparity Map Generation for Moving Multi-Camera System Using TOF Depth Sensor** Yun-Suk KANG and Yo-Sung HO	**Statistical Models Based Password Candidates Generation for Specified Language Used in Wireless LAN Security Audit** Jan KREKAN, Matus PLEVA and Ľubomír DOBOŠ
16:00– 16:20	**Edge-Preserving Block Compressive Sensing with Projected Landweber** Chien van TRINH, Khanh Quoc DINH and Byeungwoo JEON	**Software and Hardware Optimisation for a Laser Surgical Ophtalmic Microscope** Sorin Laurentiu STANESCU, Bujor PAVALOIU, Rodica TUDUCE and Paul Dan CRISTEA
16:20– 16:40	**Video Quality in Multiple HEVC Encoding-Decoding Cycles** Jakub STANKOWSKI, Tomasz GRAJEK, Krzysztof WEGNER and Marek DOMANSKI	**Wind Power Generating Systems based on Double Output Induction Machine: Considerations about Control Techniques** Maria IOANNIDES, Rodica TUDUCE, Paul Dan CRISTEA and Stylianos PAPAZIS
16:40– 17:00	**Improving Vector Quantization in Image Compression with Hilbert Scan** Orest VASCAN and Mircea WEINGART	**Robotic Mechanism For Needle's Insertion for Catheterization in Radial Artery** George LYMPEROPOULOS, Maria IOANNIDES and Nikoletta MARGARI
17:00– 17:20	**CryptoStego - A Novel Approach for Creating Cryptographic Keys and Messages** Damir OMERASEVIC, Narcis BEHLILOVIC and Sasa MRDOVIC	**Optical Correlator based Traffic Signs Inventory System** Tomáš HARASTHY, Ján TURÁN and Ľuboš OVSENÍK
17:20– 17:40	**Edge Preserved Low-Pass Filtering Controlled by Local Dimension** Milorad Paskas, Branimir Reljin, Irini Reljin and Dragi Dujkovic	**Comparative Analysis of 3 Candidate Genes in Type 2 Diabetes for Various Species** Monica-Andreea DRAGAN and Paul Dan CRISTEA

Place: Terasa Doamnei (Terrace of the Lady)

19:30 – 22:00	**Dinner**

Tuesday, 9 July 2013

Chair: Nicolae ȚĂPUȘ, University "Politehnica" of Bucharest, Romania
Time: 9:00 to 10:30, July 9, Tuesday
Place: University Senate Hall
Presentation Type: Lectures

9:00 – 9:45	**Lecture 2** **The Future of Mobile Computing** Eduard DELP
9:45 – 10:30	**Lecture 3** **Array Signal Processing for Localization and Communication** Mos KAVEH

Place: University Rectorate Hall (2th floor)

10:30 – 11:00	**Coffee Break**

Presentation Type: Conference sessions

Time	**Chair:** Alexandru MOREGA , University "Politehnica" of Bucharest, Romania **Session 5 -- Medical imaging and image analysis** *Place: University Senate Hall*	**Chair:** Iulian NĂSTAC, University "Politehnica" of Bucharest, Romania **Session 6 -- Speech and audio processing and encoding** *Place: University AN 010 Amphitheatre*
11:00 – 11:20	**Vessel Enhancement with Multiscale and Curvilinear Filter Matching for Placenta Images** Jen-Mei CHANG, Nen HUYNH, Marilyn VAZQUEZ and Carolyn SALAFIA	**Robust Speech Communication and its Embedded Smart Robot System** Yoshikazu MIYANAGA, Wataru TAKAHASHI and Sun XIHAO - *invited paper*
11:20 – 11:40	**HEVC-Based Video Coding with Loss less Region of Interest for Tele-Medicine Applications** Heng CHEN, Geert BRAECKMAN, Shahid SATTI, Peter SCHELKENS, Adrian MUNTEANU	**Audio Watermarking in Frequency Domain using Walsh Functions and LDPC Codes** Przemyslaw DYMARSKI and Robert MARKIEWICZ
11:40 – 12:00	**Automatic Detection and Classification of Alzheimer's Disease from MRI Scans Using Principal Component Analysis and Artificial Neural Networks** Rigel MAHMOOD and Bishad GHIMIRE	**A study of industrial strength of TSM watermarks** Dragoș DRĂGHICESCU
12:00 – 12:20	**Ultrasound Image Segmentation with Localized Level Set Based Curve Evolution and Rayleigh Distribution** Lin LI and Maarja KRUUSMAA	**Smartphones for Automatic Shad Counting** Daniel DIEP, Isabelle MARC, Hervé NONON, Jonathan DELHOM and Frédéric ROURE
12:20 – 12:40	**Semi-Automatic Segmentation of Tongue Tumours from Magnetic Resonance Imaging** Trushali DOSHI, John SORAGHAN, Derek GROSE, Kenneth MACKENZIE, Lykourgos PETROPOULAKIS	**Modified Estimation of Between-Class Covariance Matrix in Linear Discriminant Analysis of Speech** Peter VISZLAY, Jozef JUHAR and Matus PLEVA
12:40 – 13:00	**A Registration Method for IR Images: Preserving the thermal breast characteristics** Aura CONCI, Stephenson GALVÃO, Rafael MARQUES and Angel SANCHEZ	

Place: University Rectorate Hall (2th floor)

13:00 – 14:30	**Lunch**

Presentation Type: Conference sessions

Time	**Chair:** Sever Paşca, University "Politehnica" of Bucharest, Romania **Session 7 — Signal processing and systems** *Place: University Senate Hall*	**Chair:** Bujor Păvăloiu, University "Politehnica" of Bucharest, Romania **Session 8 – Applications** *Place: University AN 010 Amphitheatre*
14:30 – 14:50	**Simple Method for Simultaneous Improvement of Passband and Folding Bands of Comb Filter** Gordana JOVANOVIC DOLECEK and Alfonso FERNANDEZ-VAZQUEZ – *invited paper*	**Building a Specialized High Performance Web Crawler** Adrian-Ioan VASILE, Bujor PAVALOIU and Paul Dan CRISTEA
14:50 – 15:10	**An Extension of the Linkwitz-Riley Crossover Filters for Audio Systems and Their Sampled Data Implementation** Fred HARRIS, Elettra VENOSA, Xiaofei CHEN, Chris DICK & Prafulla MUTHYALA - *invited paper*	**Performance Optimization of Vision Apps on Mobile Application Processor** Kwang-Ting (Tim) CHENG, Xin YANG and Yi-Chu WANG - *Invited paper*
15:10 – 15:30	**Performance Evaluation of Differential Modulation in LTE-Downlink** Markus HOFER, Michal SIMKO, Stefan SCHWARZ and Markus RUPP	**Genome Matching on Modern Architectures** Grigore LUPESCU and Bujor PAVALOIU

Place: University Rectorate Hall (2th floor)

15:30 – 15:45	**Coffee Break**

Place: University Rectorate Hall (2th floor)

15:45 – 16:00	**Awards ceremony**

Place: Howard Johnson Grand Plaza Hotel,

19:30 – 22:00	**Dinner**