<table>
<thead>
<tr>
<th>Time</th>
<th>Monday, May 12</th>
<th>Tuesday, May 13</th>
<th>Wednesday, May 14</th>
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</thead>
<tbody>
<tr>
<td>08:30 - 09:30</td>
<td>Registration</td>
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<tr>
<td>09:30 - 10:00</td>
<td>OPENING SESSION: Welcome Speeches</td>
<td>09:30 - 11:00 Session 3 &amp; 4</td>
<td>09:30 - 11:00 Session 11 &amp; 12</td>
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<tr>
<td>10:00 - 11:30</td>
<td>PLENARY SESSION: Keynote Talks</td>
<td>11:00 - 11:30 Coffee break</td>
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<tr>
<td>11:30 - 12:00</td>
<td>Sony Professional Solutions Europe Talk</td>
<td>11:30 - 12:30 Session 5 &amp; 6</td>
<td>11:30 - 12:30 Session 13 &amp; 14</td>
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<tr>
<td>12:00 - 12:30</td>
<td>Welcome cocktail</td>
<td>12:30 - 14:00 Lunch break</td>
<td>12:30 - 14:00 Lunch break</td>
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<tr>
<td>12:30 - 14:00</td>
<td>Lunch break</td>
<td>14:30 - 16:00 Session 7 &amp; 8</td>
<td>15:00 - 18:30 Sightseeing</td>
</tr>
<tr>
<td>14:30 - 16:00</td>
<td>Session 1 &amp; 2</td>
<td>16:00 - 16:30 Coffee break</td>
<td>16:30 - 18:00 Session 9 &amp; 10</td>
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<tr>
<td>20:00</td>
<td>Conference Dinner</td>
<td>16:30 - 18:00</td>
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**Monday, 12 May 2014**

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<td>Welcome cocktail sponsored by Sony Europe</td>
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<td>12:30 - 14:00</td>
<td>Lunch break</td>
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<tr>
<td>14:30 - 16:00</td>
<td>SESSION 1: Image and video processing 1</td>
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<tr>
<td>14:30 - 16:00</td>
<td>SESSION 2: Medical image analysis</td>
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<tr>
<td>20:00</td>
<td>Conference dinner</td>
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<td>09:00 - 09:30</td>
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<tr>
<td>09:30 - 11:00</td>
<td><strong>SESSION 3:</strong> Image and Video Processing 2</td>
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<tr>
<td>11:00 - 11:30</td>
<td>Coffee break</td>
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<tr>
<td>11:30 - 12:30</td>
<td><strong>SESSION 5:</strong> Image and video processing 3</td>
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<tr>
<td>12:30 - 14:00</td>
<td>Lunch break</td>
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<tr>
<td>14:30 - 16:00</td>
<td><strong>SESSION 7:</strong> Signal processing 1</td>
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<tr>
<td>16:00 - 16:30</td>
<td>Coffee break</td>
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<tr>
<td>16:30 - 18:00</td>
<td><strong>SESSION 9:</strong> Signal Processing 2</td>
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<tr>
<td>16:30 - 18:00</td>
<td><strong>SESSION 10:</strong> Wireless 1</td>
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<td>Time</td>
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<tr>
<td>09:00 - 09:30</td>
<td>Registration</td>
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<td>09:30 - 11:00</td>
<td><strong>SESSION 11:</strong> Image and video processing 4</td>
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<tr>
<td>11:00 - 11:30</td>
<td>Coffee break</td>
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<tr>
<td>11:30 - 12:30</td>
<td><strong>SESSION 13:</strong> Signal Processing 3</td>
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<td>12:30 - 14:00</td>
<td>Lunch break</td>
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<tr>
<td>15:00 - 18:30</td>
<td>Sightseeing</td>
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**Meeting Point:** Lacroma Hotel, main entrance
Monday, 12 May 2014

**HALL A**

09:30 - 10:00  **OPENING SESSION: Welcome Speeches**

Session Chair: Branka Zovko-Cihlar, Mislav Grgić, and Mario Muštra

10:00 - 11:30  **PLENARY SESSION: Keynote Talks**

Session Chair: Branka Zovko-Cihlar

**Prof. Tulay Adali, Department of Computer Science and Electrical Engineering, University of Maryland Baltimore County; UNITED STATES OF AMERICA**

ICA and IVA: Theory, Connections, and Applications to Medical Imaging

**Prof. Aleksandar Louis Todorovic, University of the Arts, Mediterranean University; SERBIA/MONTENEGRO**

The Boundless Spaces of Expanded Multimedia

**Prof. Joachim Weickert, Saarland University, Saarbruecken; GERMANY**

Image Compression with Diffusion

11:30 - 12:00  **Sony Professional Solutions Europe Talk**

**Colin Thompson, European Marketing and Product Manager, Archiving Solutions, Sony Professional Solutions Europe**

Optical Disc System Advantages for Long Term Archiving of Multi-media Content

12:00 - 12:30  **Welcome cocktail (organized by Sony)**

12:30 - 14:00  **Lunch Break**
SESSION: Image and video processing 1

Session Chair: Aura Conci and Sonja Grgić

Kubra Cengiz, Mustafa Kamasak
Comparison of Algebraic Reconstruction Techniques for Tomosynthesis

Flávio F. Feliciano, Fernando B. Mainier, Fabiana R. Leta
Possible Use of Texture Parameters to Corrosion Evolution Analysis

Ilhan Aydin, Mehmet Karakose, Erhan Akin
Monitoring of Pantograph-Catenary Interaction by using Particle Swarm Based Contact Wire Tracking

Frank Schumacher, Thomas Greiner
Two stage Real-Time Stereo Correspondence Algorithm and FPGA Architecture using a Modified Generalized Hough Transform

Dušan Gleich
SAR patch scene categorization
14:30 - 16:00  
**SESSION:** Medical image analysis

**Session Chair:**  Angel Sánchez and Mario Muštra

**Alena Uus, Panos Liatsis, Ronak Rajani, Lidija Mandic**
The Impact of Boundary Conditions in Patient-Specific Coronary Blood Flow Simulation

**É. O. Rodrigues, A. Conci, T. B. Borchartt, A. C. Paiva, A. Correa Silva, T. MacHenry**
Comparing Results of Thermographic Images Based Diagnosis for Breast Diseases

**A. Sánchez, J.F. Vélez, A.B. Moreno, E. Nunes**
Effectively Integrating a Course on Biometrics in a Computer Vision Master’s Degree

**Michal Kvet, Karol Matiaško**
Application for Brain Tumour Imaging

**Mario Mustra, Mislav Grgic**
Detection of Areas Containing Microcalcifications in Digital Mammograms
Tuesday, 13 May 2014

HALL A

9:30 - 11:00  SESSION: Image and video processing 2

Session Chair:  Panos Liatsis and Fernando Garcia

Krzysztof Wegner, Olgierd Stankiewicz, Marek Domański
Fast View Synthesis using Platelet-based Depth Representation

Ayman Rabee, Imad Barhumi
License Plate Detection and Recognition in Complex Scenes Using Mathematical Morphology and Support Vector Machines

Fernando Garcia, Aurelio Ponz, David Martin, Arturo de la Escalera, José María Armingol
Computer Vision and Laser Scanner Road Environment Perception

Zohir Irki, Abdelatif Oussar, Mohamed Hamdi, Fatah Seddi
A Fuzzy UV-disparity Based Approach for Obstacles Avoidance

Intaek Kim, Tayyab Wahab Awan, Youngsung Soh
Background Subtraction-Based Multiple Object Tracking Using Particle Filter

Nemra Abdelkrim, Kecir Issam, Khrouf Lyes, Chaib Khaoula
Fuzzy Logic Controllers for Mobile Robot Navigation in Unknown Environment using Kinect Sensor

11:00 - 11:30  Coffee break

11:30 - 12:30  SESSION: Image and video processing 3

Session Chair:  Gregor Rozinaj and Ivan Minárik

Muhammad Imran Ahmad, Mohd Zaizu Ilyas, Ruzelita Ngadiran, Mohd Nazrin Md Isa, Shahrul Nizam Yaakob
Palmprint Recognition Using Local and Global Features
Marek Vančo, Ivan Minárik, Gregor Rozinaj  
Evaluation of Static Hand Gesture Algorithms

Michal Kawulok, Jakub Nalepa  
Hand Pose Estimation using Support Vector Machines with Evolutionary Training

12:30 - 14:00    Lunch break

14:30 - 16:00    SESSION: Signal processing 1  
Session Chair: Gregor Rozinaj and Tomasz Maka

Julien Osmalskyj, Marc Van Droogenbroeck, Jean-Jacques Embrechts  
Performances of Low-level Audio Classifiers for Large-scale Music Similarity

Danilo Souza, Levi Saturnino, Alexandre M. A. Maciel  
A Portability Evaluation of Brazilian Portuguese Voices Produced with MARY TTS

Alex Frid, Yizhar Lavner  
Spectral and Textural Features for Automatic Classification of Fricatives Using SVM

Thomas Schmitz, Jean Jacques Embrechts  
Improvement in Non-linear Guitar Loudspeaker Sound Reproduction

Matevž Pesek, Aleš Leonardis, Matija Marolt  
Boosting Audio Chord Estimation using Multiple Classifiers

Tomasz Maka, Piotr Dziurzanski  
Feature Contours Fusion for Determining Segment Boundaries in Audio Data

16:00 - 16:30    Coffee break
16:30 - 18:00  
**SESSION: Signal processing 2**

**Session Chair:** Ján Turán and Mesud Hadžialić

**Maarten Jansen**
Nonseparable Laplacian Pyramids with Multiscale Local Polynomials for Scattered Data

**Hamed Fatemi, Ghassem Jaberipur**
Double \{0, 1, 2\} Representation Modulo-(\(2^n - 3\)) Adders

**Jiaying Du, Christer Gerdtman, Maria Lindén**
Signal Processing Algorithms for Temperature Drift in a MEMS-gyro-based Head Mouse

**Ján Turán, Ľuboš Ovseník**
Application of Web Controlled Fibre Optic Refractometer

**Oussar Abdelatif, Bouaziz Samir, Sakhi Samir**
Design and Implementation of a Navigation System Based On Sensors Fusion

**Akram Shokri, Mohammad Hossein Davarpour, Ahmad Akbari**
Improving Keyword Detection Rate Using a Set of Rules to Merge HMM-based and SVM-based Keyword Spotting Results

**Piotr Dziurzanski, Tomasz Maka**
Network on Chips Link Bandwidth Minimization of Deadlock-free Multi-Path Routing
09:30 - 11:00  
**SESSION: Multimedia**

**Session Chair:** Narcis Behlilović and Fabiana R. Leta

**Ognjen Joldzic, Zoran Djuric**  
Video Streaming Protocol Extension for Session Control and Authorization

**Namir Škaljo, Alen Begović, Narcis Behlilović, Mesud Hadžialić**  
An Efficient Troubleshooting Testing Scenario for IPTV over DSL: Preliminary Discussion

**Shymaa EL-Leithy**  
Self-Organizing Maps based 3D Normal Mesh Compression

**In-Cheol Kim, Joo-Hee Kim, Seok-Jun Lee**  
MobileSense: A Robust Sound Classification System for Mobile Applications

**Sebastian Baumgartner, Gangolf Hirtz**  
Narrowband Interference Mitigation for SDR based DAB/DAB+ Receivers

11:00 - 11:30  
**Coffee break**

11:30 - 12:30  
**SESSION: Networks**

**Session Chair:** Pavol Podhradský and Juraj Blichár

**Radovan Kadlic, Juraj Blichár, Pavol Podhradský**  
New Trends in Content Delivery Networks

**Markus Laner, Philipp Svoboda, Markus Rupp**  
Detecting M2M Traffic in Mobile Cellular Networks

**Lothar Thieling, André Schüer, Georg Hartung, Gregor Büchel**  
Embedded Image Processing System for Cloud-based Applications

12:30 - 14:00  
**Lunch break**

14:30 - 16:00  
**SESSION: Security**
Session Chair: Dijana Tralić and Sonja Grgić

Dijana Tralić, Paul L. Rosin, Xianfang Sun, Sonja Grgić
Detection of Duplicated Image Regions using Cellular Automata

Seniha Ketenci, Guzin Ulutas, Mustafa Ulutas
Detection of Duplicated Regions in Images Using 1D-Fourier Transform

Laura Vegh, Liviu Miclea
A New Approach Towards Increased Security in Cyber-Physical Systems

Steven Dearstyne, Daryl Johnson
Leveraging Public Posts and Comments as Covert Channels

16:00 - 16:30 Coffee break
16:30 - 18:00 SESSION: Wireless 1

Session Chair: Miran Gosta and Ana Katalinić Mucalo

Pınar Kirci, Hakima Chaouchi, Anis Laouiti
Cluster-Based Protocol Structures in WSNs

Wojciech M. Kempa
On Queueing Delay in WSN with Energy Saving Mechanism Based on Queued Wake Up

Dominique Lemur, Yvon Erhel, Martial Oger, Jérôme Le Masson
MIMO Channel Measurements on a Ionospheric HF (3-30 MHz) Radio Link

Marko Malajner, Dušan Gleich
Study of Link Quality Indicator for Possible usage in Angle of Arrival Estimation

Routing Metric Selection and Design for Multi-Purpose WSN

Nisrine Ghadban, Paul Honeine, Farah Mourad-Chehade, Clovis Francis, Joumana Farah
Mobility using First and Second Derivatives for Kernel-based Regression in Wireless Sensor Networks
Wednesday, 14 May 2014

HALL A

09:30 - 11:00  
SESSION: Image and video processing 4

Session Chair: Markus Rupp and Kresimir Sakic

Krzysztof Klimaszewski, Krzysztof Wegner, Marek Domański  
Video and Depth Bitrate Allocation in Multiview Compression

Tomasz Grajek, Jakub Stankowski, Krzysztof Wegner, Marek Domański  
Video Quality in AVC Homogenous Transcoding

Terence Zarb, Carl James Debono  
Depth-Based Image Processing for 3D Video Rendering Applications

Yanxiang Wang, Charith Abhayaratne, Rajitha Weerakkody, Marta Mrak  
Colour Space Transforms for Improved Video Compression

Krešimir Šakić, Emil Dumić, Sonja Grgić  
Crowdsourced Subjective Video Quality Assessment

11:00 - 11:30  
Coffee break

11:30 - 12:30  
SESSION: Signal processing 3

Session Chair: Mario Muštra and Ciril Bohak

Howard Cheng, Camara Lerner  
Rate-Distortion Approach to Bit Allocation in Lossy Image Set Compression

Viet Anh Nguyen, Khanh Quoc Dinh, Chien Van Trinh, Byeungwoo Jeon  
HVS based Iterative Hard Thresholding Recovery for Compressive Sensed Image
A New Image Segmentation Method Based On 3-Dimensional Entropic Thresholding Using a 3-Dimensional (GLLALE) Histogram

Ciril Bohak, Anže Sodja, Matija Marolt, Uroš Mitrovič, Franjo Pernuš
Fast Segmentation, Conversion and Rendering of Volumetric Data using GPU

12:30 - 14:00  Lunch break
Wednesday, 14 May 2014

HALL B

09:30 - 11:00  SESSION: Wireless 2

Session Chair: Jasmin Mušovic and Miran Gosta

Andrey S. Goponenko, Oleg V. Stukach, Arman B. Mirmanov, Vladislav A. Kochumeev
15 Watt High Efficiency Gunn Diode Transmitter for Measurement-While-Drilling Wireless System

Oleg V. Stukach, Andrey S. Goponenko, Arman B. Mirmanov, Vladislav A. Kochumeev
Equipment for Extract Behavioral Transmitter Models for the New Communication Telemetry System Design

Irfan Oksar
A Bluetooth Signal Strength Based Indoor Localization Method

Sebastian Baumgartner, Gangolf Hirtz
Narrowband Interference Estimation for OFDM Based On Power Spectral Density Functions

Kemal Huseinovic, Mirko Škrbic, Lamija Kasumagic, Jasmin Mušovic
Future of Mobile TV in Bosnia and Herzegovina

11:00 - 11:30  Coffee break

11:30 - 12:30  SESSION: Image and video processing 5

Session Chair: Irena Galić and Časlav Livada

Marek Loderer, Jarmila Pavlovičová, Matej Féder, Miloš Oravec
Data Dimension Reduction in Training Strategy for Face Recognition System

Hrvoje Leventić, Časlav Livada, Irena Galic
Towards Fixed Facial Features Face Recognition
Moazzam Butt, Naser Damer
Helper Data Scheme for 2D Cancelable Face Recognition using Bloom Filters

12:30 - 14:00  Lunch break