

# ELMAR-2008 PROGRAM

## Wednesday, 10 September 2008

09:00 - 10:00 <b>Registration</b>		
<b>HALL A</b>		
10:00 - 10:45 <b>OPENING SESSION: Welcome Speeches</b>		
10:45 - 11:45 <b>WELCOME COCKTAIL organized by the Mayor of Zadar, Dr. Živko Kolega</b>		
11:45 - 12:30 <b>PLENARY SESSION 1: Keynote Talk</b>		
12:30 - 14:00 <b>Lunch Break</b>		
14:00 - 15:00 <b>PLENARY SESSION 2: Keynote Talks</b>		
15:00 - 15:15 <b>Coffee Break</b>		
<b>HALL A</b>	<b>HALL B</b>	<b>HALL C</b>
15:15 - 17:15 <b>SESSION:</b> <b>Image and Video Processing 1</b>	15:15 - 17:15 <b>SESSION:</b> <b>Multimedia Communications</b>	15:15 - 17:15 <b>SESSION:</b> <b>Speech and Audio Processing</b>
17:15 - 17:30 <b>Coffee Break</b>		
17:30 - 19:30 <b>SESSION:</b> <b>Image and Video Processing 2</b>	17:30 - 19:30 <b>SESSION:</b> <b>Telecommunications 1</b>	17:30 - 19:30 <b>SESSION:</b> <b>e-Learning and m-Learning</b>
21:00 <b>ELMAR-2008 SYMPOSIUM DINNER</b> <b>(with cocktail and concert)</b> Hotel "Donat / Puntamika" Restaurant		

## Thursday, 11 September 2008

<b>HALL A</b>	<b>HALL B</b>	<b>HALL C</b>
09:00 - 10:15 <b>SESSION:</b> <b>Image and Video Processing 3</b>	09:00 - 10:15 <b>SESSION:</b> <b>Telecommunications 2</b>	09:00 - 10:15 <b>SESSION:</b> <b>Ship Electronic Systems; Sea Ecology</b>
10:15 - 10:30 <b>Coffee Break</b>		
10:30 - 11:45 <b>SESSION:</b> <b>Image and Video Processing 4</b>	10:30 - 11:15 <b>SPECIAL SESSION:</b> <b>The Impact of Galileo on Maritime and Inland Navigation</b>	10:30 - 11:45 <b>SESSION:</b> <b>Power Electronics and Automation</b>
	11:15 - 12:15 <b>SESSION:</b> <b>Navigation Systems</b>	
12:45 - 21:00 <b>EXCURSION BY SHIP</b> (lunch and dinner included) <u>Meeting Point:</u> Hotel "Donat", Main Entrance, 12:45		

# ELMAR-2008 PROGRAM

**Friday, 12 September 2008**

HALL A	HALL B	HALL C
09:00 - 11:00 <b>SESSION:</b> Image and Video Processing 5	09:00 - 11:00 <b>SPECIAL SESSION:</b> VISNET II - Networked Audiovisual Systems	09:00 - 11:00 <b>SPECIAL SESSION:</b> New Electromagnetic Structures - Analysis and Design
11:00 - 11:15 <b>Coffee Break</b>		
11:15 - 12:45 <b>SESSION:</b> Wireless Communications 1	11:15 - 12:45 <b>SPECIAL SESSION:</b> Planning of Wireless and Wireline Broadband Networks	11:15 - 12:45 <b>SPECIAL SESSION:</b> ICT Network Convergence and NGN
12:45 - 14:00 <b>Lunch Break</b>		
14:00 - 15:30 <b>SESSION:</b> Wireless Communications 2	14:00 - 15:30 <b>SPECIAL SESSION:</b> Computer Vision in Art (1/2)	14:00 - 15:30 <b>SPECIAL SESSION:</b> Wireless Sensor Networking
15:30 - 15:45 <b>Coffee Break</b>		
15:45 - 17:00 <b>SPECIAL SESSION:</b> Multimedia Processing	15:45 - 17:00 <b>SPECIAL SESSION:</b> Computer Vision in Art (2/2)	
17:30 - 20:00 <b>GUIDED ZADAR SIGHTSEEING AND COCKTAIL ORGANIZED            BY ZADAR COUNTY PREFECT, MR. STIPE ZRILIĆ</b> <u>Meeting Point:</u> Hotel "Donat", Main Entrance, 17:30		

## Wednesday, 10 September 2008

09:00-10:00      **Registration**

### **HALL A**

**Wednesday, 10 September 2008**

10:00-10:45      **OPENING SESSION: Welcome Speeches**

Session Chair:      **Branka Zovko-Cihlar, Viljem Jerič**

10:45-11:45      **WELCOME COCKTAIL**  
**organized by the Mayor of Zadar, Dr. Živko Kolega**

11:45-12:30      **PLENARY SESSION 1: Keynote Talk**

Session Chair:      **Panos Liatsis**

**Univ.Prof. Dr.techn. Markus Rupp; AUSTRIA**  
Testbeds and Rapid Prototyping in Wireless Systems

12:30-14:00      **Lunch Break**

14:00-15:00      **PLENARY SESSION 2: Keynote Talks**

Session Chair:      **Panos Liatsis**

**Professor Paul Cross; UNITED KINGDOM**  
GNSS Data Modeling: The Key to Increasing  
Safety and Legally Critical Applications of GNSS

**Dr.-Ing. Malte Kob; GERMANY**  
The Role of Resonators in the Generation of Voice Signals

15:00-15:15      **Coffee Break**

15:15-17:15      **SESSION: Image and Video Processing 1**

Session Chair:      **Krešimir Delač**

**Emil Dumic, Sonja Grgic, Mislav Grgic; CROATIA**  
Comparison of HDTV Formats by Objective Video Quality Measures

**Matej Loncaric, Dijana Tralic, Maja Brzica, Josip Vukovic, Jan Lovrinic, Emil Dumic, Sonja Grgic; CROATIA**  
Testing Picture Quality in HDTV Systems

**Snježana Rimac-Drlje, Ognjen Nemčić, Mario Vranješ; CROATIA**  
Scalable Video Coding Extension of the H.264/AVC Standard

**Ján Mochnáč, Stanislav Marchevský; SLOVAKIA**

Error Concealment Scheme Implemented in H.264/AVC

**Mario Vranješ, Snježana Rimac-Drlje, Krešimir Grgić; CROATIA**

Locally Averaged PSNR as a Simple Objective Video Quality Metric

**Sanja Jurić, Vedran Klepac, Kazimir Bačić; CROATIA**

Measurements of Horizontal Static Resolution of High Definition Cameras

**Pamela Begovic, Narcis Behlilovic, Aleksandar Mastilovic; BOSNIA AND HERZEGOVINA**

Parameters Comparison of Stored Audio/Video Contents, Transcoded Using Different Compression Algorithms

**Vedran Klepac, Ivica Duk, Zvonimir Jukica, Zvonimir Novosel; CROATIA**

Broadcast of the FIS World Ski Cup in a 16:9 Aspect Ratio Format: Zagreb, Sljeme 2008

17:15-17:30

**Coffee Break**

17:30-19:30

**SESSION: Image and Video Processing 2**

Session Chair:

**Krešimir Delač**

**Mario Kovač, Dragan Schwarz, Tomislav Jakopović; CROATIA**

Requirements for Information and Imaging Standards in Health Information Systems

**Mario Mustra, Kresimir Delac, Mislav Grgic; CROATIA**

Overview of the DICOM Standard

**Jelena Bozek, Kresimir Delac, Mislav Grgic; CROATIA**

Computer-Aided Detection and Diagnosis of Breast Abnormalities in Digital Mammography

**Paul Dan Cristea, Rodica Tuduce, Jan Cornelis; ROMANIA / BELGIUM**

Complementary Sequences for Coded Aperture Imaging

**Gerald Schaefer, Rafal Nowosielski, Roman Starosolski; UNITED KINGDOM / POLAND**

Evaluation of lossless image compression algorithms for CFA data

**Grzegorz Ulacha, Ryszard Stasiński; POLAND**

Predictor Blending for Real-Time Lossless Coding System

**Jaroslav Polec, Sandra Ondrušová, Kvetoslava Kotuliaková, Natália Helešová, Tatiana Karlubíková; SLOVAKIA**

Hierarchical Transform Coding Using NURBS Approximation

**Tomislav Lukicic, Sonja Grgic, Mislav Grgic; CROATIA**

Audio Archive: From Film to Digital Sound Recording

21:00

**ELMAR-2008 SYMPOSIUM DINNER (with cocktail and concert)**

**Hotel "Donat / Puntamika" Restaurant**

15:15-17:15

**SESSION: Multimedia Communications**Session Chair: **Branka Zovko-Cihlar****Zlatan Begić, Melika Bolić, Himzo Bajrić; BOSNIA AND HERZEGOVINA**

Effect of Multicast on IPTV Channel Change Performance

**Danijel Vlahovic, Miran Gosta, Hrvoje Domitrovic; CROATIA**

Coverage planning of DRM service in LF and MF band

**Gabriel Lazar, Tudor Mihai Blaga, Virgil Dobrota; ROMANIA**

Framework for IPTV QoS

**Alen Begović, Narcis Behlilović, Mirza Milišić; BOSNIA AND HERZEGOVINA**

Possibility of Multimedia Services Providing by ADSL System over Long Local Loop

**Vedran Perkovic; CROATIA**

Mobile TV, DVB-H or DBM for Europe?

**Melika Bolić, Zlatan Begić, Elmir Šećerbegović; BOSNIA AND HERZEGOVINA**

Parallel Video Distribution Architectures for LiveStreaming Multimedia Systems

**Radim Stukavec, Tomas Kratochvil; CZECH REPUBLIC**

Influence of the Transmission Channel Type and Error Correction on DVB-T Error Rates

**Ahmet Halilović, Branka Zovko-Cihlar, Narcis Behlilović; BOSNIA AND HERZEGOVINA / CROATIA**

Broadband networks for multimedia information distribution

17:15-17:30

**Coffee Break**

17:30-19:30

**SESSION: Telecommunications 1**Session Chair: **Zoran Skočir****Irina Asenova; BULGARIA**

Symbolic Sensitivity Analysis Using Nullators, Norators and Modified Coates Signal - Flow Graph

**Tomislav Matić, Tomislav Švedek, Marijan Herceg; CROATIA**

PLD Implementation of All-digital Delay-Locked Loop

**Slađana Zorić, Jasmina Baraković, Haris Hodžić; BOSNIA AND HERZEGOVINA**

QoS Architecture in IP Multimedia Subsystem of UMTS

**Saeed Erfanian, Vahid T. Vakili; IRAN**

Analysis of Improved Switching CFAR in the Presence of Clutter and Multiple Targets

**Tudor Mihai Blaga, Gabriel Lazar, Virgil Dobrota; ROMANIA**

Generalized AGCS with PIM-SM

**Anabela M. Bernardino, Eugénia M. Bernardino, Juan M. Sánchez-Pérez, Juan A. Gómez-Pulido, Miguel A. Vega-Rodríguez; PORTUGAL / SPAIN**  
Genetic Algorithms and Iterated Local Search to solve the Ring Loading Problem

**Haris Hodzic, Sladjana Zoric; BOSNIA AND HERZEGOVINA**  
Traffic Engineering with Constraint Based Routing in MPLS Networks

**Toufic Chmayssani, Genevieve Baudoin; FRANCE**  
Performances of Digital Modulations for Data Transmission over Voice Dedicated Channels

**Dzenana Muracevic, Fahrudin Orucevic; BOSNIA AND HERZEGOVINA**  
Spatial Data based on SOA

21:00      **ELMAR-2008 SYMPOSIUM DINNER (with cocktail and concert)**  
Hotel "Donat / Puntamika" Restaurant

15:15-17:15

**SESSION: Speech and Audio Processing**Session Chair: **Gregor Rozinaj****Oshry Ben-Harush, Itshak Lapidot, Hugo Guterman; ISRAEL**  
Segmental K-Means Initialization for SOM-Based Speaker Clustering**Marko Horvat, Kristian Jambrošić, Hrvoje Domitrović; CROATIA**  
Reverberation Time Measurements in Reverberant Spaces**Inge Gavat, Corneliu-Octavian Dumitru; ROMANIA / FRANCE**  
A Viable System for Speech Recognition and Understanding in Romanian Language**Mia Suhanek, Kristian Jambrošić, Marko Horvat; CROATIA**  
A comparison of two methods for measuring the sound absorption coefficient using impedance tubes**Antonio Petošić, Bojan Ivančević, Dragoljub Svilar; CROATIA**  
Influence of the calorimetric system setup on the output acoustic power measurement results**Kristina Levak, Marko Horvat, Hrvoje Domitrović; CROATIA**  
Effects of Noise on Humans**Tarik Namas, Murat Dogruel; BOSNIA AND HERZEGOVINA**  
A Feasible and Accurate Technique for Determining the Time-of-Flight in Ultrasonic Distance Measurements

17:15-17:30

**Coffee Break**

17:30-19:30

**SESSION: e-Learning and m-Learning**Session Chair: **Pavol Podhradský****Sergio Martín, Rosario Gil, Gabriel Díaz, Elio Sancristobal, Manuel Castro, Juan Peire; SPAIN**  
From e-learning to m-learning through b-learning and s-learning**Cristina De Castro, Paolo Toppan; ITALY**  
An Architecture for Interactive Target-Oriented e-Learning Systems**Francesco La Regina, Giuseppe Laria, Giovanni Posella, Elena La Regina, Daniela Fiorelli; ITALY**  
Albert, AI & Bart and the special relativity theory**Luminița Giurgiu, Ghiță Bârsan, Dan Moșteanu; ROMANIA**  
Web Syndication in Educational Environment**Petr Grygárek, Jan Vavříček, Tomáš Kučera; CZECH REPUBLIC**  
Architectures of Interconnection of Network Laboratories in Distributed Learning Environment

**Ferdinand Ferber, Marco Gießmann, Thorsten Hampel, Jonas Schulte; GERMANY**  
Brining Together High-Tech Laboratories and E-Learning Infrastructures

**Dušan Levický, Pavol Podhradský, Radovan Ridzoň, Peter Trúchly, Ján Gamec; SLOVAKIA**  
Vocational Training and Certification in ICT based on the e-learning

**Tomaž Romih, Marko Malajner, Dušan Gleich, Peter Planinšič; SLOVENIA**  
Educational Computer Vision System for Object Detection and Tracking

21:00            **ELMAR-2008 SYMPOSIUM DINNER (with cocktail and concert)**  
Hotel "Donat / Puntamika" Restaurant



## Thursday, 11 September 2008

**HALL A**

**Thursday, 11 September 2008**

09:00-10:15      **SESSION: Image and Video Processing 3**

Session Chair:      **Marta Mrak**

**Zlatko Jelacic, Hrvoje Balasko, Mislav Grgic; CROATIA**

End-to-end real time IPTV quality monitoring

**Muhammad Asif, John Soraghan; UNITED KINGDOM**

Video Analytics for Panning Camera in Dynamic Surveillance Environment

**Yun-Suk Kang, Yo-Sung Ho; KOREA**

Geometrical Compensation for Multi-view Video in Multiple Camera Array

**Vladimir Ergovic; CROATIA**

Multi Stage Symbolic-Based Shape Indexing and Retrieval

**Fahima Djabelkhir, Karim Mokrani; ALGERIA**

Local Curvature Constrained Level Set Segmentation Using a Spectral Bi-Partitioning Algorithm

10:15-10:30      **Coffee Break**

10:30-11:45      **SESSION: Image and Video Processing 4**

Session Chair:      **Jozef Čepko**

**Wladyslaw Skarbek, Lilla Baginska, Marcin Jedryka; POLAND**

Image Segmentation by Dirac Needles

**Nikola Žarić, Irena Orović, Srdjan Stanković, Cornel Ioana; MONTENEGRO / FRANCE**

Space/Spatial-Frequency Based Image Watermarking

**Octavian Dumitru, Mihai Mitrea, Françoise Prêteux; FRANCE**

Wavelet-based video modelling

**Hrvoje Turić, Vladan Papić, Hrvoje Dujmić; CROATIA**

A Procedure for Detection of Humans from Long Distance Images

**Fahima Djabelkhir, Karim Mokrani, Mohammed Khamadja; ALGERIA**

Minimal Weights Covered Tree on Level Set Segmentation Using Local Curvature Constraints

12:45-21:00      **EXCURSION BY SHIP** (lunch and dinner included)  
Meeting Point: Hotel "Donat", Main Entrance, 12:45

09:00-10:15           **SESSION: Telecommunications 2**

Session Chair:       **Zoran Skočir**

**Saša Klampfer, Gregor Globačnik, Jože Mohorko, Žarko Čučej; SLOVENIA**  
Geometric packet classification algorithm

**Amela Brkanić, Mesud Hadžialić, Džemo Borovina; BOSNIA AND HERZEGOVINA**  
Effects of Choice of MAC Protocol on QoS Parameters in BPL Network

**Marko Banek, Damir Jurić, Damir Pintar, Zoran Skočir, Mihaela Vranić, Boris Vrdoljak; CROATIA**  
E-business infrastructure for supporting the integration of tourist services

**Mesud Hadžialić, Adnan Huremović, Anida Sarajlić, Edina Ademović; BOSNIA AND HERZEGOVINA**  
An Analytical Approach for Traffic Modeling in Mixed Service Architectures

**Elmir Šećerbegović, Melika Bolić, Zlatan Begić; BOSNIA AND HERZEGOVINA**  
Distributed MAC for OFDM based Powerline Communication Networks

10:15-10:30           **Coffee Break**

10:30-11:15           **SPECIAL SESSION:**  
**The Impact of Galileo on Maritime and Inland Navigation**

Session Chair:       **Bernhard Hofmann-Wellenhof**

**Elisabeth Klaffenböck, Bernhard Hofmann-Wellenhof; AUSTRIA**  
European Satellite Navigation - A Challenge

**Christoph Abart; AUSTRIA**  
Simulating GNSS Constellations - GPS, Galileo and SBAS

**Philipp Berglez; AUSTRIA**  
Development of a GPS, Galileo and SBAS receiver

11:15-12:15           **SESSION: Navigation Systems**

Session Chair:       **Bernhard Hofmann-Wellenhof**

**B. Cobo, L. Valle, Rafael P. Torres; SPAIN**  
A Site-Specific Radar Simulator for Clutter Modelling in VTS Systems

**Matias Waller, Kjell Dahl; FINLAND**  
Educational Autopilot - A Practical Approach

**Tomislav Kos, Maja Botincan, Ivan Markežić; CROATIA**  
Estimation of Tropospheric Delay Models compliance

**Renato Filjar, Tomislav Kos, Vitomir Čičin; CROATIA**  
GPS Positioning Performance in the Wake of the Halloween 2003 Geomagnetic Storm

12:45-21:00           **EXCURSION BY SHIP (lunch and dinner included)**  
**Meeting Point: Hotel "Donat", Main Entrance, 12:45**

09:00-10:15

**SESSION: Ship Electronic Systems; Sea Ecology**Session Chair: **Tomislav Kos****Ivica Kuzmanić, Joško Šoda, Zlatan Kulenović; CROATIA**

Simultaneous Compensation and Compression of Surveillance Camera in the Ship's Monitoring System Caused by Engine Vibrations

**Seraphin Chally Abou, Marian Stachowicz; USA**

Ship Propulsion System Health Monitoring based on Safety Control Functions

**Tea Duplančić Leder, Nenad Leder; CROATIA**

Croatian ENC Production Process - a new approach

**Tomislav Tomiša, Slavko Krajcar, Damir Pinezić; CROATIA**

Multipurpose Marine Buoy

**Ivan Bublic, Dražan Skelin, Predrag Vukadin; CROATIA**

Measurement of Vessel Underwater Noise Signature

**Dražan Skelin, Ivan Bublic, Predrag Vukadin; CROATIA**

Current Profile Measurement Using Moored Acoustic Doppler Current Profiler

10:15-10:30

**Coffee Break**

10:30-11:45

**SESSION: Power Electronics and Automation**Session Chair: **Stamatis Voliotis****Uğur Çeltekligil; TURKEY**

Capacitive Power Factor and Power Quality Correction of a Light Rail Transportation System

**Mihail Antchev, Vanjo Gurgulitsov, Mariya Petkova; BULGARIA**

Study of PWM and sliding-mode controls implied to series active power filters

**Radu-Emil Precup, Stefan Preitl, József K. Tar, János Fodor, Ion-Bogdan Ursache, Petru Alexandru Clep; ROMANIA / HUNGARY**

Low-Cost Fuzzy Logic Approach to Ship Course Control

**Modris Greitans, Evalds Hermanis; LATVIA**

"Three-phase" Representation of Harmonic Signals for Application to Non-contact Diagnostics of Electric Power Transmission Lines

**Vladimir Bugarski, Filip Kulic, Jugoslav Djurdjulov, Veran Vasic; SERBIA**

Speed Control of Induction Machine using Dual Fuzzy Logic Controller

12:45-21:00

**EXCURSION BY SHIP** (lunch and dinner included)  
Meeting Point: Hotel "Donat", Main Entrance, 12:45

## Friday, 12 September 2008

**HALL A**

**Friday, 12 September 2008**

09:00-11:00      **SESSION: Image and Video Processing 5**

Session Chair:      **Lidija Mandić**

**Romain Rioux, Thierry Simon; FRANCE**

Class redundancy for face recognition by SVM

**Yu. V. Slynko; RUSSIA**

Maximum likelihood approach to the problem of simultaneous contouring and tracking

**Daniel Kekrt, Miloš Klíma; CZECH REPUBLIC**

A Black & White Picture Reconstruction by Iterative Detection Network in the Image Capturing System with CCD (CMOS) Sensor

**Catalina Cocianu, Luminita State, Panayiotis Vlamos; ROMANIA / GREECE**

A New Adaptive PCA Scheme for Noise Removal in Image Processing

**Jean-Vincent Leroy, Thierry Simon, François Deschênes; CANADA / FRANCE**

An efficient method for monocular depth from defocus

**Siriwhaddhanah Pongpadpinit; THAILAND**

Recovery of Motion Vector Based Directional Similarity

**Ioannis Kypraios, Rupert C. D. Young, Philip. M. Birch, Chris R. Chatwin; UNITED KINGDOM**

Fully invariant complex Logarithmic  $r-\theta$  map for Hybrid Optical Neural Network filter for object recognition within cluttered scenes

**Mojtaba Mesgari Mashadi, Hamed Ahmadi, Mostafa Mesgari Mashhadi; IRAN**

Virtual Reality Center using Immersive Curved Display

11:00-11:15      **Coffee Break**

11:15-12:45      **SESSION: Wireless Communications 1**

Session Chair:      **Borivoj Modlic**

**Boris Kviz; CROATIA**

Some Trends in Optical Communications

**Alma Skopljak; BOSNIA AND HERZEGOVINA**

The SDMA Re-Use Functionality in WCDMA network

**S. Simion, G. Sajin, R. Marcelli, F. Craciunoiu, G. Bartolucci; ROMANIA / ITALY**

Microwave Directional Coupler with CRLH cells on Silicon Substrate

**Mika Maaspuro, Aulis Tuominen, Kai Airikkala, Jyrki Sippola, Ilari Mönkäre, Lasse Pykäri; FINLAND**

An Inexpensive RF Power Meter for Cellular Phone Testing in Production Environment

**Botond Sandor Kirei, Irina Dornean, Marina Topa; ROMANIA**

Image Rejection Filter Based on Complex LMS Filter for Low-IF Receivers

**Marijan Mikulić, Borivoj Modlic; CROATIA**

General System Architecture of TETRA Network for Public Safety Services

**George Sajin, Stefan Simion, Romolo Marcelli, Florea Craciunoiu; ROMANIA / ITALY**

Microwave antennas with CRLH cells on silicon substrate

12:45-14:00            **Lunch Break**

14:00-15:30            **SESSION: Wireless Communications 2**

Session Chair:        **Borivoj Modlic**

**T. M. Fernández-Caramés, J. A. García-Naya, M. González-López, L. Castedo; SPAIN**

MIMO testbed middleware for transmission automation

**Zeljko Tabakovic; CROATIA**

Mobile broadband wireless access systems coexistence

**Liljana Gavrilovska, Vladimir Atanasovski, Valentin Rakovic, Ognjen Ognenoski, Aleksandar Momiroski; MACEDONIA**

Providing Interoperability in Heterogeneous Environments towards 4G

**Ervin Zentner, Sonja Zentner Pilinsky; CROATIA**

Transmission quality impairments in an OFDM system

**Mirza Milišić, Mirza Hamza, Mesud Hadžialić; BOSNIA AND HERZEGOVINA**

Outage and Symbol Error Probability Performance of L-branch Maximal-Ratio Combiner for Generalized  $\kappa - \mu$  Fading

**Antonio Šarolić, Borivoj Modlic, Mario Cvitković; CROATIA**

Human Health Safety Limits Compliance Boundary Modelling for Typical UHF Communication Systems

**Radovan Vlastic, Dean Sumic; CROATIA**

An Optimized Shipboard HF Loop Antenna for NVIS Link

15:30-15:45            **Coffee Break**

15:45-17:00            **SPECIAL SESSION: Multimedia Processing**

Session Chair:        **Gregor Rozinaj**

**Ján Vrabc, Gregor Rozinaj, Renata Talafová; SLOVAKIA**

IQ Kiosk in Metropolitan information system

**Juraj Kačur, Jozef Čepko, Andrej Páleník; SLOVAKIA**

Automatic Labeling Schemes for Concatenative Speech Synthesis

**Martin Turi Nagy, Gregor Rozinaj, Jozef Čepko; SLOVAKIA**  
System for Prosodic Modification of Corpus Synthesized Slovak Speech

**Sakhia Darjaa, Milan Rusko, Marian Trnka, Viliam Zeman; SLOVAKIA**  
How to Teach Slovak TTS to Speak (Serviko) Romani

**Radovan Ridzoň, Dušan Levický; SLOVAKIA**  
Robust digital watermarking in DFT and LPM domain

17:30-20:00 **GUIDED ZADAR SIGHTSEEING AND COCKTAIL ORGANIZED BY  
ZADAR COUNTY PREFECT, MR. STIPE ZRILIĆ**  
Meeting Point: Hotel "Donat", Main Entrance, 17:30

09:00-11:00

**SPECIAL SESSION: VISNET II - Networked Audiovisual Systems**Session Chair: **Marta Mrak**

**Anna Carreras, Giovanni Cordara, Jaime Delgado, Frédéric Dufaux, Gianluca Francini, Thien M. Ha, Eva Rodríguez, Rubén Tous; SPAIN / ITALY / SWITZERLAND**  
A Search and Retrieval Framework for the management of copyrighted audiovisual content

**Daniel Rodriguez, Lutz Goldmann, Surachai Ongkittikul, Mustafa Karaman, Stewart Worrall, Thomas Sikora, Ahmet Kondoz; UNITED KINGDOM / GERMANY**  
A System for Personalized Human Computer Interaction

**H. Kodikara Arachchi, C.T.E.R. Hewage, S. Dogan, M. Mrak, V. Barbosa, M.T. Andrade, A.M. Kondoz; UNITED KINGDOM / PORTUGAL**  
Context-aware adaptation of SVC scalability structure for improved coding efficiency

**Eva Rodríguez, Jaime Delgado, Adrian Waller, Darren Price, Peter de Waard; SPAIN / UNITED KINGDOM**  
DRM and Access Control architectures interoperability

**Kan Ren, W.A.C. Fernando, Janko Calic; UNITED KINGDOM**  
Optimising Video Summaries Using Unsupervised Clustering

**Karol Wnukowicz, Grzegorz Galiński, Rubén Tous; POLAND / SPAIN**  
Still Image Copy Detection Algorithm Robust to Basic Image Modifications

**Andreas Krutz, Alexander Glantz, Thomas Sikora, Paulo Nunes, Fernando Pereira; GERMANY / PORTUGAL**  
Automatic Object Segmentation Algorithms for Sprite Coding using MPEG-4

**Antonio Rama, Jürgen Rurainsky, Francesc Tarrés, Peter Eisert; SPAIN / GERMANY**  
Partial PCA in Frequency Domain

**J. D. Areia, F. Pereira, W.A.C. Fernando; PORTUGAL / UNITED KINGDOM**  
Impact of the Key Frames Quality on the Overall Wyner-Ziv Video Coding Performance

11:00-11:15

**Coffee Break**

11:15-12:45

**SPECIAL SESSION:  
Planning of Wireless and Wireline Broadband Networks**Session Chair: **Jens Myrup Pedersen**

**Shkelzen Cakaj, Hysen Gashi, Muharrem Shefkiu; KOSOVO**  
Topology aspects of FTTH implementation in Kosovo's telecommunication network

**Norleyza Jailani, Ahmed Patel, Aruna Arumugam; MALAYSIA**  
Measuring WLAN Performance for Systematic Network Planning: Case Study

**Rasmus Hjorth Nielsen, M. Tahir Riaz, Jens Myrup Pedersen, Ole Brun Madsen; DENMARK**

On the Potential of Using the Cable Trench Problem in Planning of ICT Access Networks

**Antoni Zabłudowski, Bozydar Dubalski, Slawomir Bujnowski, Tahir Riaz; POLAND / DENMARK**

Transport Layers for Backbone and Access IP Networks

**M. Tahir Riaz, Rasmus Hjorth Nielsen, Jose Gutierrez, Jens Myrup Pedersen, Ole Brun Madsen; DENMARK**

On implementing Chordal Ring structures using Genetic Algorithm and Simulated Annealing

**Bozydar Dubalski, Antoni Zabłudowski, Slawomir Bujnowski, Jens Myrup Pedersen; POLAND / DENMARK**

Comparison of Modified Chordal Rings Fourth Degree to Chordal Rings Sixth Degree

**Jose Gutierrez, M. Tahir Riaz, Ruben Cuevas, Jens Pedersen, Ole Madsen; DENMARK**

Dynamic Protection-Based Topological Routing For Grid Networks

12:45-14:00            **Lunch Break**

14:00-15:30            **SPECIAL SESSION: Computer Vision in Art (1/2)**

Session Chairs:    **Peter Peer, Borut Batagelj, Karolj Skala**

**Peter Peer, Borut Batagelj; SLOVENIA**

Computer Vision in Contemporary Art (Introduction to the Special Session)

**Erik Dovgan, Ana Čigon, Miha Šinkovec, Uroš Klopčič; SLOVENIA**

A system for interactive virtual dance performance

**L. Mandić, A. Poljičak, D. Agić, P. Liatsis; CROATIA / UNITED KINGDOM**

Case study: Capturing art paintings

**Narvika Bovcon; SLOVENIA**

Conceptual Passages - Srečo Dragan's New Media Art Projects

**J. Torres, A. Posse, J. M. Menéndez, A. Gabaldón, C. Vega, T. Antelo, M. del Egido, M. Bueso; SPAIN**

VARIM: A Computer Vision System for the Automatic Creation of High Resolution Reflectographic Mosaics

15:30-15:45            **Coffee Break**

15:45-17:00            **SPECIAL SESSION: Computer Vision in Art (2/2)**

Session Chairs:    **Peter Peer, Borut Batagelj, Karolj Skala**

**Irena Mihalinec, Radomir Stevanović, Karolj Skala; CROATIA**

Emotion Recognition and its Aesthetic Interpretation



**Przemyslaw Lagodzinski, Bogdan Smolka; POLAND**

Digital Image Colorization Based on Probabilistic Distance Transformation

**Niksa Babic, Jesenka Pibernik, Nikola Mrvac; CROATIA**

Media Study: Motion Graphics

**Aleš Vaupotič, Narvika Bovcon; SLOVENIA**

Space and Time in New Media Objects - VideoSpace, Friedhof Laguna, Mouseion  
Serapeion, S.O.L.A.R.I.S., To Brecknock..., Data Dune

**Franc Solina, Borut Batagelj, Slavko Glamočanin; SLOVENIA**

Virtual Skiing as an Art Installation

17:30-20:00 **GUIDED ZADAR SIGHTSEEING AND COCKTAIL ORGANIZED BY  
ZADAR COUNTY PREFECT, MR. STIPE ZRILIĆ**  
Meeting Point: Hotel "Donat", Main Entrance, 17:30

09:00-11:00

**SPECIAL SESSION:  
New Electromagnetic Structures - Analysis and Design**Session Chair: **Zvonimir Šipuš****Silvio Hrabar, Mirko Domitrovic, Kresimir Pavicic; CROATIA**

Numerical and Experimental Investigation of Subwavelength Propagation of Electromagnetic Energy along a Bare Row of SRR Inclusions

**Ivan Vilović, Rober Nađ, Zvonimir Šipuš, Nikša Burum; CROATIA**

A Non-destructive Approach for Extracting the Complex Dielectric Constant of the Walls in Building

**Marko Bosiljevac, Zvonimir Šipuš; CROATIA**

Hybrid method for the analysis of curved electromagnetic structures

**Slavko Rupcic, Vanja Mandric; CROATIA**

Effect of Experimental Model Errors on Radiation Pattern of a Spherical Aperture Antennas Array

**Tin Komljenovic, Zvonimir Sipus; CROATIA**

Dielectric Lens Antennas Design at Millimeter Waves

**Pavo Klokoč, Ivan Lujo, Marko Bosiljevac, Nikša Burum; CROATIA**

Optical sensor system for vibration measuring

**Zvonimir Šipuš, Marko Bosiljevac, Sonja Zentner Pilinsky; CROATIA**

New Types of Optical Fibers - Analysis and Design

11:00-11:15

**Coffee Break**

11:15-12:45

**SPECIAL SESSION: ICT Network Convergence and NGN**Session Chair: **Pavol Podhradský****Pavol Podhradský, Ivan Kotuliak, Eugen Mikóczy; SLOVAKIA**

New Trends in NGN Technologies and Network Platforms

**Peter Trúchly, Marek Golha, Tomáš Filipko, Radoslav Gašperák, Michal Legen; SLOVAKIA**

Simulation of IMS using current simulators

**R. Tomek, R. Kadlic, E. Mikóczy, P. Podhradský; SLOVAKIA**

IPTV applications in the NGN environment

**Ondrej Lábaj, Pavol Podhradský, Peter Trúchly, Eugen Mikóczy; SLOVAKIA**

Exception violations in Voice over IP telephony

**Vladimír Hájovský, Kvetoslava Kotuliaková, Ivan Kotuliak; SLOVAKIA**

HARQ schemes for HSDPA - analysis and simulation

12:45-14:00

**Lunch Break**

14:00-15:30

**SPECIAL SESSION: Wireless Sensor Networking**

Session Chairs: **Theodore Zahariadis, Stamatis Voliotis, Nelly Leligoy**

**T. Zahariadis, E. Ladis, H.C. Leligou, P. Trakadas, C. Tselikis, K. Papadopoulos; GREECE**

Trust Models for Sensor Networks

**Ioannis Chatzigiannakis, Vasiliki Liagkou, Paul G. Spirakis; GREECE**

A Trusted Architectural Model for Interconnecting Testbeds of Wireless Sensor Networks

**P. Trakadas, T. Zahariadis, H.C. Leligou, S. Voliotis, K. Papadopoulos; GREECE**

AWISSENET: Setting up a Secure Wireless Sensor Network

**Dimitris M. Kyriazanos, Neeli R. Prasad, Charalampos Z. Patrikakis; GREECE / DENMARK**

A Security, Privacy and Trust Architecture for Wireless Sensor Networks

**Marko Malajner, Karl Benkič, Žarko Čučej; SLOVENIA**

Online programmable wireless sensor node for testing purpose

**Karl Benkič, Marko Malajner, Aleksandar Peulič, Žarko Čučej; SLOVENIA / SERBIA**

Academic education Wireless Sensor Network: AeWSN

17:30-20:00

**GUIDED ZADAR SIGHTSEEING AND COCKTAIL ORGANIZED BY ZADAR COUNTY PREFECT, MR. STIPE ZRILIĆ**

Meeting Point: Hotel "Donat", Main Entrance, 17:30