

ELMAR-2007 PROGRAMME

Wednesday, 12 September 2007

08:30 - 15:30	Registration	
HALL A		
09:00 - 09:15	OPENING SESSION - WELCOME SPEECHES	
09:15 - 09:45	Welcome Cocktail organized by the Mayor of Zadar, Dr. Živko Kolega	
09:45 - 11:45	PLENARY SESSION - KEYNOTE TALKS	
11:45 - 12:00	Coffee Break	
HALL A		HALL B
12:00 - 13:00 SESSION: Image and Video Processing for Mobile Multimedia		12:00 - 13:00 SESSION: Navigation Systems - 1 INVITED PAPERS
13:00 - 14:00 Lunch Break		
14:00 - 15:30 SESSION: Video Coding for Wireless Communication Channels		14:00 - 15:30 SESSION: Navigation Systems - 2
17:00 - 20:00 GUIDED ZADAR SIGHTSEEING, VISIT TO ST. MARY'S CHURCH (The Permanent Ecclesiastical Art Exhibition: "The Gold and Silver of Zadar") AND COCKTAIL ORGANIZED BY ZADAR COUNTY PREFECT, MR. IVO GRBIĆ <u>Meeting Point:</u> Hotel "Donat", Main Entrance, 17:00		
20:30 ELMAR-2007 SYMPOSIUM BANQUET Hotel "Donat / Puntamika" Restaurant		

ELMAR-2007 PROGRAMME

Thursday, 13 September 2007

HALL A	HALL B
09:00 - 11:30 SESSION: Multimedia Communication over Mobile Wireless Networks	09:00 - 11:30 SESSION: Speech and Audio Processing
12:30 - 21:00 EXCURSION BY SHIP (lunch and dinner included) <u>Meeting Point:</u> Hotel "Donat", Main Entrance, 12:30	

Friday, 14 September 2007

HALL A	HALL B
09:00 - 11:30 SESSION: Multimedia Applications	09:00 - 11:30 SESSION: Wireless Communications

Wednesday, 12 September 2007

08:30-15:30 **Registration**

HALL A

Wednesday, 12 September 2007

09:00-09:15 **OPENING SESSION - WELCOME SPEECHES**

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

09:15-09:45 **Welcome Cocktail organized by the Mayor of Zadar, Dr. Živko Kolega**

09:45-11:45 **PLENARY SESSION - KEYNOTE TALKS**

Session Chair: **Sonja Grgić**

Ramjee Prasad; DENMARK

Personal Networks and 4G

Ismail Khalil Ibrahim; AUSTRIA

Mobile Multimedia: Bringing Users into Focus

Elmar Nöth, Christian Hacker, Anton Batliner; GERMANY

Does Multimodality Really Help? The Classification of Emotion and of On/Off-Focus in Multimodal Dialogues - Two Case Studies

11:45-12:00 **Coffee Break**

12:00-13:00 **SESSION: Image and Video Processing for Mobile Multimedia**

Session Chair: **Krešimir Delač**

Tomislav Lukicic, Sonja Grgic, Peter Peer; CROATIA / SLOVENIA

Conversion Demands on TV Archive

Claude Tameze, Robert Vincelette, Nouredine Melikechi, Vesna Zeljković; USA

Empirical Analysis of LIBS Images Using the Nonlinear Diffusion Method

Lidija Mandic, Kresimir Delac, Mislav Grgic; CROATIA

Corresponding Colors: Visual and Predictive Data

Ivan Senji, Zoran Kalafatić; CROATIA

Tracking Objects Using Particle Filters

Panos Liatsis, Amalia Foka, John Yannis Goulermas, Lidija Mandic; UNITED KINGDOM / GREECE / CROATIA

Adaptive Polynomial Neural Networks for Times Series Forecasting

13:00-14:00 **Lunch Break**

14:00-15:30 **SESSION: Video Coding for Wireless Communication Channels**

Session Chair: **Ismail Khalil Ibrahim**

O. Nemčić, M. Vranješ, S. Rimac-Drlje; CROATIA

Comparison of H.264/AVC and MPEG-4 Part 2 Coded Video

M. Vranješ, S. Rimac-Drlje, D. Žagar; CROATIA

Objective Video Quality Metrics

Goran Gvozden, Miran Gosta, Sonja Grgic; CROATIA

Comparison of H.264/AVC and MPEG-4 ASP Coding Techniques Designed for Mobile Applications Using Objective Quality Assessment Methods

Jasmina Baraković, Himzo Bajrić, Amir Husić; BOSNIA AND HERZEGOVINA

The Impact of Increased Video Traffic on Quality of Service Parameters in Next Generation IP/MPLS Network

17:00-20:00 **GUIDED ZADAR SIGHTSEEING, VISIT TO ST. MARY'S CHURCH (The Permanent Ecclesiastical Art Exhibition: "The Gold and Silver of Zadar") AND COCKTAIL ORGANIZED BY ZADAR COUNTY PREFECT, MR. IVO GRBIĆ**

Meeting Point: Hotel "Donat", Main Entrance, 17:00

20:30 **ELMAR-2007 SYMPOSIUM BANQUET**

Hotel "Donat / Puntamika" Restaurant

12:00-13:00 **SESSION: Navigation Systems - 1**

Session Chair: **Tomislav Kos**

Vedran Bakarić, Dušan Kalember, Davorin Ambruš; CROATIA - INVITED PAPER
Marine Control and Monitoring Systems at Brodarski Institute

**M. Aquino, A. Dodson, G. deFranceschi, L. Alfonsi, V. Romano, J.F.G. Monico,
H. Marques, C. Mitchell; UNITED KINGDOM / ITALY / BRAZIL - INVITED PAPER**
Towards Forecasting and Mitigating Ionospheric Scintillation Effects on GNSS

**Hal J. Strangeways, Vadim E. Gherm, Nikolay N. Zernov;
UNITED KINGDOM / RUSSIA - INVITED PAPER**
Modeling and Mitigation of the Effect of Scintillations on GPS

Tomislav Kos, Renato Filjar, Ivan Markezic; CROATIA
Theoretical Model of Space Weather Impact on GPS Ionospheric Delay

13:00-14:00 **Lunch Break**

14:00-15:30 **SESSION: Navigation Systems - 2**

Session Chair: **Jakov Kitarović**

Teodor Lucian Grigorie, Dragos George Sandu; ROMANIA
On the Attitude Errors When the Quaternionic Wilcox Method is Used

Teodor Lucian Grigorie, Dragos George Sandu; ROMANIA
The Influences of the Gyro Sensors' Errors on the Attitude Calculus

Marin Stipanov, Zoran Fabeković, Zoran Vukić; CROATIA
Automarine Module - The VideoRay Pro II autonomization module

Zoran Fabeković, Zdravko Eškinja, Zoran Vukić; CROATIA
Micro ROV Simulator

Zdravko Eškinja, Zoran Fabeković, Zoran Vukić; CROATIA
Localization of Autonomous Underwater Vehicles by Sonar Image Processing

17:00-20:00 **GUIDED ZADAR SIGHTSEEING, VISIT TO ST. MARY'S CHURCH (The
Permanent Ecclesiastical Art Exhibition: "The Gold and Silver of
Zadar") AND COCKTAIL ORGANIZED BY ZADAR COUNTY PREFECT,
MR. IVO GRBIĆ**
Meeting Point: Hotel "Donat", Main Entrance, 17:00

20:30 **ELMAR-2007 SYMPOSIUM BANQUET**
Hotel "Donat / Puntamika" Restaurant

Thursday, 13 September 2007

HALL A

Thursday, 13 September 2007

09:00-11:30

**SESSION: Multimedia Communication
over Mobile Wireless Networks**

Session Chair: **Borivoj Modlic, Snježana Rimac-Drlje**

Ivica Radović, Borivoj Modlic; CROATIA

Practical Results of AMR Codecs Exploitation in GSM network

Alen Begović, Narcis Behlilović; BOSNIA AND HERZEGOVINA

Research of Symmetrical Copper Based Twisted Pair
near Active ADSL Service Parameters Properties

A. Vrábek, R. Vargic, I. Kotuliak; SLOVAKIA

Subscriber Databases and their Evolution in Mobile Networks from GSM to IMS

Zlatko Jelacic, Hrvoje Balasko, Mislav Grgic; CROATIA

Megapixel Surveillance Imaging over Broadband Wireless Network Infrastructure

Mario Cvitković, Borivoj Modlic, Gordan Šišul; CROATIA

High Speed Downlink Packet Access Principles

Narcis Behlilović, Mesud Hadžialić, Pamela Begović; BOSNIA AND HERZEGOVINA

An Approach to Techno-Economical Analysis for PLC
Broadband Access Telecommunication Networks

Dubravko Zagar, Zvonimir Vrazic, Sonja Grgic; CROATIA

The Impact of Doppler Shift on Mobile Communication Reception in DVB-H System

12:30-21:00

EXCURSION BY SHIP (lunch included)

Meeting Point: Hotel "Donat", Main Entrance, 12:30

09:00-11:30

SESSION: Speech and Audio ProcessingSession Chair: **Gregor Rozinaj****Benny Sällberg, Nedelko Grbić, Ingvar Claesson; SWEDEN**

Online Blind Speech Extraction based on a Locally Quadratic Kurtosis Criteria and a Preprocessing Automatic Gain Controller

Ivo Ipšić, Maja Matetić, Sanda Martinčić-Ipšić, Ana Meštrović, Marija Brkić; CROATIA

Croatian Speech Technologies

Juraj Vojtko, Juraj Kacur, Gregor Rozinaj; SLOVAKIA

The Training of Slovak Speech Recognition System based on Sphinx 4 for GSM Networks

Božo Tomas, Mladen Maletić, Zlatko Raguž; BOSNIA AND HERZEGOVINA / CROATIA

Influence of Emotions to Pitch Harmonics Parameters of Vowel /a/

Gergely Feldhoffer; HUNGARY

Speaker Independent Continuous Voice to Facial Animation on Mobile Platforms

Zohra Yermeche, Nedelko Grbić; SWEDEN

A Delay-Based Constrained Beamformer for Blind Speech Enhancement and Dereverberation

Mikael Swartling, Mikael Nilsson, Nedelko Grbić; SWEDEN

Detection of Vehicle Mounted Auditory Reverse Alarm using Hidden Markov Model

R. Talafová, G. Rozinaj, J. Cepko; SLOVAKIA

Speech Synthesis for Mobile Phone

B. Tóth, G. Németh; HUNGARY

Challenges of Creating Multimodal Interfaces on Mobile Devices

Martin Turi Nagy, Gregor Rozinaj, Andrej Páleník; SLOVAKIA

A Hybrid Pitch Period Estimation Method Based on HNM Model

12:30-21:00

EXCURSION BY SHIP (lunch included)Meeting Point: Hotel "Donat", Main Entrance, 12:30

Friday, 14 September 2007

HALL A

Friday, 14 September 2007

09:00-11:30

SESSION: Multimedia Applications

Session Chair: **Pavol Podhradsky**

Attila Tihanyi; HUNGARY

Mobile Multimedia Application for Deaf Users

Shkelzen Cakaj, Muharrem Shefkiu; KOSOVO

Migration from PSTN to NGN

Zlatan Begić, Melika Bolić, Himzo Bajrić; BOSNIA AND HERZEGOVINA

Centralized Versus Distributed Replication Model For Multicast Replication

Daniel C. Doolan, Sabin Tabirca; IRELAND

The Need for Speed: coding styles for Mobile Devices

Hrvoje Balasko, Zlatko Jelacic, Mislav Grgic; CROATIA

Broadcast System Integration for Parliament Television

Ján Vrabc, Gregor Rozinaj; SLOVAKIA

IQ Kiosk - Multimedia Intelligent Terminal

Irena Vuksanovic, Branka Zovko-Cihlar, Damir Boras; CROATIA

M-Learning in Croatia: Mobile Multimedia Systems for Distance Learning

P. Podhradský, E. Mikóczy, J. Matejka, O. Lábaj, I. Kotuliak, R.Tomek; SLOVAKIA

Practical Experience with New Services and Applications Supported by NGN Platform

Ivica Kuzmanić, Tomislav Slavić, Igor Vujović,

Zlatan Kulenović, Danko Kezić, Petar Matić; CROATIA

Usage of Robots in Maritime Affairs with Accent on Robot Vision

Nikos Katevas, Areti Pantelouka, Kanella Petrakou,

Stamatis Voliotis, Theodore Zahariadis; GREECE

Test Environment for VSN Routing Algorithms Using Mobile Robot

09:00-11:30

SESSION: Wireless CommunicationsSession Chair: **Winton Afric****Mesud Hadzialic, Sulejman Colo, Anida Sarajlic; BOSNIA AND HERZEGOVINA**An Analytical Approach to Probability of Outage Evaluation
in Gamma Shadowed Nakagami-m and Rice Fading Channel**Winton Afric, Davor Virkes, Mislav Grgic; CROATIA**

Relative Surface of the WiMAX Cell Covered with Modox of the Signal

**Nasuf Hadžiahmetović, Mirza Milišić, Melita Ahić Đokić,
Mesud Hadžialić; BOSNIA AND HERZEGOVINA**Estimation of Nakagami Distribution Parameters Based on Signal
Samples Corrupted with Multiplicative and Additive Disturbances**Peter Trúchly, Peter Búran; SLOVAKIA**

Analysis and Comparison of LEO and MEO Satellite Networks

Mohammad Shirali-Shahreza, Sajad Shirali-Shahreza; IRAN

Passwordless Login System for Mobile Phones Using CAPTCHA

Zvonimir Vrazic, Dubravko Zagar, Sonja Grgic; CROATIA

Adaptive Modulation in Microwave Networks

Ivan Vilović, Nikša Burum, Zvonimir Šipuš; CROATIA

A Comparison of Neural Network Models for Indoor Field Strength Prediction

Ana Katalinić, Robert Nagy, Radovan Zentner; CROATIA

Open Issues for Practical Implementation of MIMO Systems

Karl Benkič, Peter Planinšič, Žarko Čučej; SLOVENIA

Custom Wireless Sensor Network based on ZigBee