

# Wednesday, 28 June 2000

08:00-09:00 **Registration - Hotel "Donat" (1<sup>st</sup> Floor)**

## HALL A

09:00-09:30 **Opening of the ELMAR-2000 Symposium**

09:30-11:00 **ELMAR-2000 Symposium:  
Invited Papers**

Session Chair: **B. Zovko-Cihlar, V. Jeric**

**V. Muljevic; CROATIA:**

Development of Croatia's Shipbuilding and Shipyards

**P. Cukrov; CROATIA:**

Fifth Warfare Environment

**R. Smierzchalski; POLAND:**

Practical Methods to Make Decision of Safe Manoeuvre and Trajectory Avoiding Collision at Sea

**E. Zentner; CROATIA:**

Radio Channel Planning in Modern Mobile Communication Systems

**B. Modlic, A. Sarolic, V. Roje; CROATIA:**

GSM Base Stations Impact on Environmental Electromagnetic Pollution

**V. Jeric; CROATIA:**

Cost Effective Radar Surveying on Sea

11:00-11:30 **Cocktail - Hotel "Donat" (Ground Floor)**

11:30-13:00 **ELMAR-2000 Symposium - SESSION:  
Radiocommunications**

Session Chair: **B. Modlic, N. Mijat**

**D. Zelic, N. Mijat, N. Stojkovic; CROATIA:**

Educational Program Modules in Network Theory

**I. Vujovic, I. Kuzmanic; CROATIA:**

Consideration on the New Services and DICOM Standard Applications over Wireless Channels in Marine

**M. Hadzialic, N. Behlilovic:**

Internet Services in HF Radio Nets

**D. Kolaric, D. Dubravac, K. Skala; CROATIA:**

Fire Flickering Detection Method for Discrimination of Optical Sources

**S. Zentner, L. Sumhrast, Z. Sipus, B. Kviz; CROATIA / SLOVAKIA:**

Optical Pulse Propagation Modeling in Nonlinear Dispersive Media

**Z. Sipus, D. Cika, N. Burum; CROATIA:**

CyMPA - Program for Analyzing Microstrip Patch Arrays on Circular Cylindrical Structures

**D. Bonefacic, J. Bartolic, H. Peric; CROATIA:**

Investigation of a Circularly Polarized Square Patch Antenna with Diagonal Slot

**K. Malaric, J. Bartolic, B. Modlic; CROATIA:**

GTEM-Cell as a Facility Compliant to Open Area Test Site

**N. Majurec, G. Sisul, Z. Tabakovic; CROATIA:**

Electronic Low-Loss Phase Shifter with Near Octave Bandwidth

**R. Malaric, I. Lenicek, M. Kresic; CROATIA:**

Determination of DMM Errors

13:00-15:00      **Lunch Break**

15:00-17:30      **ELMAR-2000 Symposium - SESSION:  
Telecommunications**

Session Chair:      **M. Tkalic, W. Afric**

**S. Mujacic, M. Tkalic, M. Mujacic; BiH / CROATIA:**

A Virtual Classroom via ISDN Approach

**S. Valecic, M. Tkalic; CROATIA:**

Request on new Internet Version of Telephone Directory of Republic of Croatia

**V. Bozic, K. Krajinovic; CROATIA:**

Protocol Architecture for xDSL Access Systems

**J. Visic, W. Afric; CROATIA:**

Introduction of Information Services on Demand in BIP Paging Network

**M. Nizetic; CROATIA:**

Switching Transients in Composed RLC Network

**M. Hebel, H. Pavicic, M. Tkalic; CROATIA:**

Quality of Service in 3rd Generation

**J. Bonacic; CROATIA:**

Electronic Commerce Systems

**M. Cagalj; CROATIA:**

Importance of Customer Contact Center in Customer Care

**S. Svilokos, K. Krajina, M. Tkalic; CROATIA:**

Speech Technologies and Building of an Universal Telecommunication Translating Service

17:30-18:00      **Coffee Break - Hotel "Donat" (Ground Floor)**

18:00-18:30      **Commercial Presentations (Hall A)**

# Wednesday, 28 June 2000

## HALL B

11:30-13:00 **VIPromCom-2000 Workshop:  
Invited Papers**

Session Chair: **B. Zovko-Cihlar, P. Podhradsky**

**Z. Cucej, R. Svecko, D. Gleich; SLOVENIA:**  
Wavelet Transformation Video Coding

**K. Fazekas; HUNGARY:**  
MPEG-4 Standard for Audio-Visual Representation

**P. Podhradsky; SLOVAKIA:**  
Application of Multimedia in Distance Education

**W. Burakowski, A. Beben; POLAND:**  
Traffic Control Mechanisms for Wireless ATM networks

**K. Wajda; POLAND:**  
ATM Standard in Operator's Network

13:00-15:00 **Lunch Break**

15:00-18:00 **VIPromCom-2000 Workshop - SESSIONS:  
Multimedia Applications / Multimedia Processing /  
Multimedia Databases**

Session Chair: **Z. Cucej, B. Medved Rogina**

**G. Matay; HUNGARY:**  
Data Transmission on Cable Television Networks

**T. Kos, B. Zovko-Cihlar, S. Grgic; CROATIA:**  
Trends in CATV Systems

**G. Vrabic; SLOVENIA:**  
Video on Demand Technologies

**B. Medved Rogina; CROATIA:**  
Delay and Delay Jitter in Multimedia Communications

**S. Grgic, M. Mrak, N. Sprljan; CROATIA:**  
DCTlab – Didactic Tool for the Study of Image Compression

**R. Stasinski; POLAND:**  
Improving the fast Shape-adaptive DCT based Transform

**I. Chromy; CZECH REPUBLIC:**  
The three-dimensional Discrete Cosine Transform and its use  
for the Moving Video Compression

**M. Grgic, M. Ghanbari; CROATIA / UNITED KINGDOM:**

Similarity Texture Retrieval

**V. Klepac, D. Zimonja, N. Percin, W. Diemling; CROATIA:**

Panorama TV

**Z. Vranycz, K. Fazekas; HUNGARY:**

Shape and Texture Coding Techniques for very low Bitrate Multimedia Systems

**B. Potocnik, D. Zazula; SLOVENIA:**

Detection of Ovarian Follicles in Ultrasound Images using Region Growing

**T. Morris, D. Britch; UNITED KINGDOM:**

Intra-frame Wavelet Video Coding

**S. Rimac-Drlje, B. Zovko-Cihlar, S. Grgic; CROATIA:**

Visually Weighted Wavelet Still Image Compression

**P. Planinsic, J. Vrbanec, R. Svecko, Z. Cucej; SLOVENIA:**

Using Neural Network for Subjective Image Quality Control in Wavelet-subband Image Coding

**I. Vujovic, I. Kuzmanic, M. Krcum; CROATIA:**

A Criterion for Wavelet Compression Quality of Teleradiology Images

**D. Taskovski, S. Bogdanova, M. Bogdanov; MACEDONIA:**

Wavelet based Digital Watermarking of Images

# Thursday, 29 June 2000

## HALL B

08:30-11:00 **VIPromCom-2000 Workshop - SESSION:  
General Technique / Multimedia Communications**

Session Chair: **P. Cristea, P. Liatsis**

**P. Cristea; ROMANIA:**

The Evolutionary Intelligent Agent Concept

**P. Katsande, P. Liatsis; UNITED KINGDOM:**

Robust Tracking of Road Edges in Lane Following

**C. Ooi, P. Liatsis; UNITED KINGDOM:**

Critical Points Detection using Genetic Algorithms

**J. Gozdecki; POLAND:**

Quality of Service Issue in IP Networks-scalability of RSVP Protocol

**R. Chodorek, A. Szymański, K. Wajda; POLAND:**

Investigation on Interactions between TCP and ATM in LAN Environment

**B. Ratej, A. Chowdhury, M. Pec, J. Vrbanec, Z. Cucej, R. Sveccko; SLOVENIA:**

Internet Telephony over H.323 and SIP

**R. Fabijankovic, B. Zovko-Cihlar, B. Poldrugac; CROATIA:**

Wireless Multimedia Services in GSM and GPRS Environment

**D. Virkes, B. Zovko-Cihlar; CROATIA:**

Noise Supression using Cavity Filters in Wireless Communications

**L. Mandic, S. Grgic, I. Srdic; CROATIA:**

The Transmission of Accurate Color over the Telecommunication Network

12:00 **Excursion - Meeting Point: Hotel "Barbara", Reception**

# Friday, 30 June 2000

## HALL B

09:00-10:30 **ELMAR-2000 Symposium - SESSION:  
Acoustics and Vibrations, Navigation,  
Ship Power Systems, Automation**

Session Chair: **D. Gulin, K. Ugrinovic**

**K. Ugrinovic, O. Pionic; CROATIA:**

Mathematical Model of Vessel's Underwater Acoustic Signal

**A. Ticac, D. Cisic, P. Komadina; CROATIA:**

Global Virtual Transport Logistic Organization

**S. Mandzuka; CROATIA:**

Ship Tracking Control - Optimal Estimation of the Navigation Parameters

**S. Simundic; CROATIA:**

Base Model of Knowledge in the Expert System Structure for the Activities of Buyers or Inquirers in the Ship Construction Process

**D. Gulin; CROATIA:**

Naval Application of 3D Radars

**J. Budanko; CROATIA:**

Voyage Data Recorders (VDRs)

**R. Filjar, D. Filjar, S. Gojevic, S. Islam; CROATIA:**

Vertical GPS Error Estimation Using Benedict-Bordner Filter

**A. Kras, J. Susanj, A. Ticac; CROATIA:**

Availability Measures Inter-Relationships of Redundant Corrective Repairable Ship Electronic System

**V. Dadic; CROATIA:**

Vertical Interpolation of Measuring Data on Standard Oceanographic Levels

**V. Tomas, H. Baricevic, A. Buksa; CROATIA:**

Developments up to Now Ship's Automation and Expected Improvements

10:30-11:00 **Coffee Break - Hotel "Donat" (Ground Floor)**

11:00-12:00 **ELMAR Society Annual Meeting**

12:00 **End of the ELMAR-2000 Symposium**