SoftCOM 2002 - CONTENTS

GENERAL CHAIR'S GREETINGS

On behalf of the SoftCOM'02 Executive Committee I have the great pleasure to invite you to attend the jubilee 10th SoftCOM 2002 Conference in a pleasant ambience aboard the cruising ship "Dalmacija". We look forward to welcome scientists, professionals and executives in the field of communication and information technology from more than 40 countries all around the world to participate in this event. We are happy to host you aboard the ship "Dalmacija" cruising along the Croatian and Italian costs of the Adriatic Sea and visiting Split, Venice, Ancona and Dubrovnik. You will have the opportunity to share ideas with other participants in a pleasant and inspiring ambience.

This year's Program covers a number of technical, professional and social events. The central event is the 10th International Conference on Software, Telecommunications and Computer Networks. The Conference Program includes symposiums, special sessions, technical sessions, tutorials and workshops. The Business Forum will gather managers, executives, government and institution representatives from the area of ICT to discuss social and economic aspects of ICT. The Program of the SoftCOM'02 will be enriched by presentations of new communication and information technologies, equipment and services.

In addition, the cruising ship "Dalmacija", visiting the most attractive cities along the Croatian and Italian Adriatic coastline, will provide the unique opportunity for meetings of their representatives.

The success of the Conference is guaranteed by the experience of the executive team and contributions from many individuals and institutions. On behalf of the SoftCOM'02 Executive Committee I would like to express the special thanks to the IEEE Communication Society for the technical cosponsorship. Also, it is my special pleasure to acknowledge the generous financial support that SoftCOM'02 has received from the principal patron, Croatian Telekom, and the other twelve sponsors.

We believe that you will also find this Conference beneficial for you personally and for your institution. Please join us in communication with experts from all around the world and enjoy the experience of a sailing conference.

Juraj Buzolić, General Chair

TECHNICAL PROGRAM CHAIRS MESSAGE

The jubilee 10th International Conference on Software, Telecommunications and Computer Networks SoftCOM 2002 will be held from 8 to 11 October 2002 in the pleasant ambience of the luxury ship "Dalmacija" on the attractive route between Split-Venice-Ancona-Dubrovnik. It is organized by the University of Split, the Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture, and the Technology center Split with the principal patron, Croatian Telecom (HT-TKC Split). The Conference is sponsored by the Ministry of Science and Technology of the Republic of Croatia and by the IEEE Communications Society (COMSOC) Technical Committees of Communication Software and Communication Switching and Routing. Researchers and experts from industry, research institutes and universities from more than 40 countries all around the world have submitted a total of 217 papers for presentation at SoftCOM'02. Submitted papers have been reviewed by more than 100 scientists from universities, institutes and companies all over the world. All accepted papers have been carefully selected based on their contribution, relevance, conceptual clearness and overall quality. Nearly 70% of the submitted papers have been recommended for presentation within the technical program.

The conference program features three symposiums dedicated to the most current themes in the area of ICT: mobile and wireless communications, Internet technologies, and development of software and services. Four special sessions and twelve general conference sessions, and one professional workshop dedicated to the wide spectra of themes from the area of ICT will be held too. In addition seven half day tutorials will be presented by worldwide recognized experts from companies (Cisco, USA and Ericsson, Canada), and from universities (France, UK, USA, Croatia).

In conjunction with the SoftCOM'02 conference a Business Forum has been organized featuring sessions, invited talks and presentations with participation of managers, executives, experts, government and institutions' representatives who will discuss and exchange opinions and experiences on a number of hot topics in the contemporary and future ICT industry and market including business, technological and social aspects.

On behalf of the Program committee we would like to thank and credit the authors for their excellent contributions. Particularly we would like to thank to the reviewers for their great job as well as to the IEEE Communications Society (COMSOC) Technical Committees of Communication Software and Communication Switching and Routing for their support. The fruitful collaboration with the universities of Ancona, Lecce and Bari has contributed to the quality of the Program significantly.

We are looking forward to seeing you aboard.

Program Committee Co-chairs

Nikola Rožić, Dinko Begušić

PLENARY SESSIONS SPEAKERS

SoftCOM 2002, October 8, 2002
Split, Croatia

Mato Crkvenac

Minister of Finance of the Republic of Croatia

Ivica Mudrinić

President of the Management Board and Chief Executive Officer of HT (Croatian Telecom), Croatia

Gábor Németh

Budapest University of Technology and Economics, Hungary

SoftCOM 2002 COMMITTEES

EXECUTIVE COMMITTEE

J. Buzolić, Managing Director of Telecommunication Center Split – Croatian Telecom, General Chair

B. Lukšić, Governor of the County of Split and Dalmatia

D. Butković, Deputy Minister of Science and Technology

A. Dodig, Deputy Minister of Maritime Affairs, Transportation and Communications

M. Korenika, Deputy President of the Croatian Parliament Committee for Maritime, Transportation and Communications

V. Podlipec, Deputy President of the Croatian Parliament Committee for Environment Development and Protection

N. Vidošević, President of the Croatian Chamber of Commerce

I. Pavić, Head of the University of Split

S. Beroš, Mayor of the Town of Split

Ž. Domazet, The Dean of FESB Split

M. Jurjević, University of Split

D. Vučina, Managing Director of Technology Center Split

SoftCOM'02 Executive Committee Secretary
Ante Vuković, Croatian Telecom

TECHNICAL PROGRAM COMMITTEE

N. Rožić, University of Split, Croatia (Co-Chair)
(rozic@ fesb.hr)

D. Begušić, University of Split, Croatia (Co-Chair)
(begusic@fesb.hr)

H. Besier, Deutsche Telekom, Germany

A. Caric, Ericsson Nikola Tesla, Croatia

S. Benedetto, Politecnico di Torino, Italy

M. De Blasi, University of Lecce, Italy

B. Burmaz, Croatian Telecom, Croatia (Vice Chair)

F. Grenez, University of Bruxelles, Belgium

G. Kandus, Jozef Stefan Institute, Slovenia

A. Ljolje, AT&T, USA

I. Lovrek, University of Zagreb, Croatia

G. W.R. Luderer, Arizona State University, USA, luderer@asu.edu (Vice Chair)

Hiroshi Masuyama, Tottori University, Japan

Ivan Mijacika, Ericsson Nikola Tesla, Croatia

Miljenko Mikuc, University of Zagreb, Croatia

James F. Mollenauer, Technical Strategy Associates, USA

Stan Moyer, Telcordia, USA

Algirdas Pakstas, London Metropolitan University, UK

Nikola Pavesic, University of Ljubljana, Slovenia

Branko Soucek, IRIS, Italy

Zarko Sutlar, Croatian Telecom, Croatia

Rob Walters, SATIN Information Services, UK

Krzysztof Wesolowski, University of Poznan, Poland

SoftCOM'02 General Secretary
Hrvoje Dujmić, University of Split, softcom@fesb.hr

FACULTY OF ELECTRICAL ENGINEERING, MECHANICAL ENGINEERING AND NAVAL ARCHITECTURE, FESB SPLIT

♦

TECHNOLOGY CENTER SPLIT

♦

CROATIAN TELECOM, TC SPLIT

Sponsored by

IEEE COMMUNICATIONS SOCIETY (COMSOC)
TC of communications software
TC of communication switching and routing
(Technical Co-sponsorship)

♦

MINISTRY OF SCIENCE AND TECHNOLOGY OF THE REPUBLIC OF CROATIA
♦
MINISTRY OF MARITIME AFFAIRS, TRANSPORTATION AND COMMUNICATIONS
♦
♦
♦
UNIVERSITY OF SPLIT

IEEE CONTACT

A. Pakstas, University of North London, UK
(a.pakstas@ieee.org)

G.W.R. Luderer, Arizona State Univ., USA (Vice Chair)
(luderer@asu.edu)

http://www.fesb.hr/SoftCOM

TUTORIALS

SoftCOM 2002, October 8-11, 2002
Split, Dubrovnik (Croatia)
Venice, Ancona (Italy)

DUBROVNIK, Friday, October 11, 09:00-12:30, (VIS)

T1 - ROLE OF RELIABILITY IN COMPUTER NETWORK DESIGN

Algirdas Pakstas, London Metropolitan University, UK

Abstract: Capacity, Reliability, and Delay are three magic words which are used when concepts of the computer network design are described. While Capacity and Delay are relatively good understood it is not a case for Reliability. Term Reliability is often used interchangeable with Availability and Dependability. Increased Redundancy in the network structure is often considered as important or even the only way to achieve higher levels of Reliability. The goal of the Tutorial is to present a role of Reliability (in a broad sense) in the network design. Factors affecting Performability of the Communications Systems are discussed. Reliability in the network design process in a context of systems approach to network design is considered in more detail. Examples of calculations of Reliability figures for different network designs are considered using tool Delite. Reliability support in communications protocols is discussed. Example of simulations and animations of network dynamics is presented using tools ns-2 and nam.

Biography: *Algirdas Pakstas holds MSc in Radiophysics and Electronics and PhD in Systems Programming. Currently he works at the London Metropolitan University where he is doing research in communications software engineering for multimedia and real-time systems, extranets, as well as organization of complex projects. He has published two and edited one research monographs as well as over 120 other publications. He is active in the IEEE Communications Society Technical Committees on Communications Software, Multimedia Communications and Enterprise Networking and Applications. He is involved in organization of many IEEE Communications Society conferences in various capacities e.g. most recently Vice-Chair for ICC'2000 and Symposium Technical Chair for ICC'01. His teaching experience includes Communications Engineering, Data Communications, Upper Layers OSI Protocols, and most recently Network Planning and Management. He presented a number of tutorials at Globecom and SoftCOM conferences. He is a Senior Member of IEEE, IEEE Computer and Communication Societies as well as member of ACM and the New York Academy of Sciences.*

VENICE, Wednesday, October 9, 09:00-12:30, (KORCULA)

T2 - SOME IMPLEMENTATIONS OF GRAPHICAL MODELLING IN OpenGL

Robert Whitrow, London Metropolitan University, UK

Abstract: In this tutorial we shall explore the underlying theory behind the construction and manipulation of graphical objects including shading, lighting and surface texturing. Besides outline theory, there will be implementations in C++ which pay particular attention to how the operations take place.
So far as is possible object orientation will be avoided in order that the underlying theory is clearly demonstrated and provide users with a later capability of constructing objects.

Biography: *Robert Whitrow received his B.Sc. honours degree in Physics from London University in 1967 and his Ph.D. in Physics, from the University of Essex in 1972. He worked for the C.E.G.B. before returning to academic life at Brighton Polytechnic in 1974. There he was made a Reader. He is now Academic Leader in the Department of Computing at London Metropolitan University. He has worked on the machine recognition of handwriting for a number of years, and has been awarded a number research grants on this topic. Dr Whitrow is the author of numerous scientific publications and is a member of the British Computer Society.*

T3 - INTERACTION OF HUMANS WITH COMMUNICATION SYSTEMS ELECTROMAGNETIC FIELDS

Dragan Poljak, University of Split, CROATIA

Abstract: The presence of electromagnetic fields in the environment has been recently awakened by the controversy on the possible adverse effects. The effects of electromagnetic fields on humans generally depend on their strength and frequency. Consequently, the electromagnetic fields are split in two main categories; low frequency spectrum (up to 30kHz) and high frequency spectrum (from 30kHz to 300GHz).

This seminar is intended to provide some fundamental information regarding the biological effects of electromagnetic fields and covers several aspects of the computational models, measurement techniques and safety standards established by international bodies.

Part 1 covers some fundamental aspects of possible radiation hazard. Part 2 deals with calculation and measurement techniques related to the analysis of electromagnetic interference (EMI) sources. Part 3 is devoted to the electromagnetic modeling, that almost completely arises from the presenter's own research on the subject. The original presenter's computational approach is based on the equivalent antenna representation of the human body and the boundary element (BE) solution of the corresponding integral equations arising from antenna theory. The analysis is carried out in both the frequency and time domain.

Part 4 is intended to serve as an opener to the thermal modeling of the human body by solving the corresponding bio-heat transfer equation, while part 5 focuses on the known coupling mechanisms between electromagnetic fields and the human body.

Finally, the last part of the seminar is on safety standards and limiting exposures of electromagnetic fields discussing the established international guidelines and protection measures.

Biography: *Professor Dragan Poljak received his BSc in 1990, his MSc in 1994 and his PhD in 1996 from the University of Split Croatia. From 1990 to 1998 he was Assistant Lecturer at the Department of Electronics at the University of Split and since 1998 he has been an Assistant Professor in the same Department. His research interest include computational methods in electromagnetics, particularly in the numerical modeling of wire antennas in the presence of inhomogeneous media using both frequency and time domain techniques. In the past decade, Professor Poljak has published around 90 papers in the area of computational electromagnetics.*

T4 - VoIP –VOICE OVER THE INTERNET

Gottfried W. R. Luderer, Arizona State University, USA

Abstract: The Internet is more and more used to carry voice conversations. The technology used, known as Voice-over-IP or Voice over the Internet Protocol, is still evolving. In this seminar we will give a snapshot overview if VoIP, starting with some historical background and leading to today's status. An important role is played by the Session Initiation Protocol (SIP), a standard developed by the Internet Engineering Taskforce (IETF), which will be contrasted with the ISO signaling counterparts in SS#7. Finally, we will discuss various applications of SIP to implement a variety of real-time services over the Internet such as multimedia conferencing.

Biography: *Dr. Gottfried W. R. Luderer was appointed Professor, ISS Chair of Telecommunication, at Arizona State University in the Fall of 1990. His current research program in networking includes work in the areas of control of ISDN/Broadband ISDN networks, mobile communication networks, and multimedia communication, which ranges from call processing for intelligent network services to network management.*

Research emphasis is on advanced software technologies for development of telecommunication networks, as used in switches, for signaling and in network management, with a focus on object and component technology and formal definition techniques. Besides the academic involvement at the university, Dr. Luderer has been teaching short courses since 1992 on high-speed networks and telecommunication software architecture in various countries. From 1965 to 1989, Dr. Luderer was with AT&T Bell Labs, at last directing research on next generation switch architectures, based on fast packet switching technology on the hardware side and object-oriented design technology on the software side, resulting in some of the earliest demonstration networks for multimedia communication. Dr. Luderer holds Diplomingenieur (M.S) and Dr.-Ing. (Ph.D) degrees in Electrical Engineering from the Technical University of Braunschweig, Germany. He holds two patents. While at Bell Labs, he taught at Stevens Institute of Technology in Hoboken, NJ, and at Princeton University. He is member of ACM, IEEE, IEEE Computer and Communication Societies.

T5 - QoS IN THE NEXT GENERATION OF WIRELESS NETWORKS

Pascal LORENZ, Universite de Haute Alsace, FRANCE

Abstract: Emerging Internet Quality of Service (QoS) mechanisms are expected to enable wide spread use of real time services for example, VoIP and videoconferencing. The "best effort" Internet delivery cannot be used for the new multimedia applications. New technologies and new standards are necessary to offer Quality of Service (QoS) for these multimedia applications. Therefore new communication architectures integrate mechanisms allowing to guarantee QoS services as well as high rate for the communications.
The promising service level agreement to a mobile Internet user is hard to come by, since there may not be enough resources available in some parts of the IP/ATM networks as mobile terminal is moving into. The emerging QoS architectures, differentiated services and integrated services do not consider the network nodes are mobile. QoS mechanisms enforce a differentiated sharing of bandwidth among services and users. Thus, there must be mechanisms available to identify traffic flows with different QoS parameters, and to make it possible to charge the users based on requested quality. Integration of fixed and portable wireless access into IP networks presents a cost effective and efficient way to provide seamless end-to-end connectivity and ubiquitous access in a market where demands on mobile Internet have grown rapidly and predicted to generate billions of dollars in revenue.
The tutorial covers an introduction to QoS in heterogeneous networks, Internet delivery over future wireless networks, the ATM, MPLS, DiffServ, IntServ protocols, … It addresses characteristics of the Internet and its mobility features and how it could guarantee QoS using wireless IP services. It also presents concepts of routing, quality-of-service provisioning and security, baseline architecture of the inter-networking protocols and end to end traffic management issues.

Biography*: Pascal LORENZ received his Ph.D. degree in 1994 from the University of Nancy, France. Between 1990 and 1995 he was research engineer at WorldFIP Europe and at Alcatel-Alsthom. Since 1995 he is associate professor at the University of Haute-Alsace. His research interests include QoS, wireless networks and high-speed networks. He was the Program and Organizing Chair of the IEEE ICATM'98, ICATM'99, ECUMN'00, ICN'01, ECUMN'02 conferences and the Co-Chair of ICATM'00, ICATM'01 conferences. Since 2000, he is Technical Editor of IEEE Communications Society Editorial Board. He is member of many international committees programs and he has served as guest editor for a number of special issues, including Telecommunication System, IEEE Communications Magazine and LNCS. He has served as referee for several IEEE conferences, he has organized several technical sessions and has chaired many of them. He is the author of 60 international publications.*

T6 - ENGINEERING VALUE ADDED SERVICES IN INTERNET TELEPHONY: ISSUES, CONCEPTS AND PRINCIPLES

Roch H. Glitho, Ericsson Research, CANADA

Abstract: Two main sets of standards have emerged for Internet Telephony: H.323 from the ITU-T and SIP from the IETF. Valued added services or more simply services are critical to Internet Telephony service providers' survival and success. Unfortunately, the service architectures that come with H.323 and SIP specifications are rather weak. Several alternatives are emerging. Some are based on the intelligent network (IN) principles and others on technologies such as the object oriented service control API (e.g. PARLAY/OSA, JAIN JCC/JCAT, SIP servlets) and Web services. This tutorial provides an overview of the standard service architectures for Internet Telephony, the IN based alternatives, the object oriented API based alternatives, and the Web services based alternatives. The issues, concepts and principles are discussed. Concrete case studies are presented. Strengths and weaknesses are reviewed.

Biography: *Roch H. Glitho received a Ph.D. in tele-informatics (Royal Institute of Technology, Stockholm, Sweden) and M.Sc. degrees in business economics (University of Grenoble, France), pure mathematics (University Geneva, Switzerland), and computer science (University of Geneva). He works as expert in service engineering for Ericsson Research in Montreal, Canada. In the past he has worked for Ericsson Telecom in Stockholm, and for a computer manufacturer in Oslo, Norway. He is the Senior Technical Operations Editor of IEEE Communications Magazine, a past Editor-in-Chief of IEEE Communications Surveys & Tutorials and serves as Technical editor for the Kluwer Journal of Network and Systems Management (JNSM). He has guest edited several special issues for well-known magazines and journals. He was the technical program chair of the third international workshop on mobile agents for telecommunication applications (MATA 2001). He has also been member of the technical program committee of several major conferences. His research interests include service engineering, signaling, mobile code and network management.*

T7 - MOBILE WIRELESS INTERNET ARCHITECTURE AND PROTOCOLS

Parviz Yegani, Cisco Systems, USA

Abstract:
- Motivations for defining a new architecture for the Mobile Wireless Internet.
- Network architecture requirements.
- 3G and All-IP models plus the migration strategy
- Call scenarios used to validate the proposed architecture
- Status of Mobile Wireless Internet Standards (MWIF, 3GPP, 3GPP2)
- The current short term needs and the long term vision

Biography: *Parviz Yegani received his Ph.D. degree (with high honors) from School of Electrical Engineering at Purdue University in December 1989. In January 1990, shortly after graduating from Purdue University, Dr. Yegani joined the faculty of Department of Electrical Engineering at State University of New York at Stony Brook. In Sept. 1990 he moved to the IBM Networking Division in Research Triangle Park, NC. While at IBM, as a member of the core network architecture team, Dr. Yegani was involved in many projects including IBM fast-packet switched networks architecture and wireless multimedia communications networks standards.*

During his tenure at IBM Dr. Yegani was IBM¹s Liaison to Columbia University and an advisory board member to the Communications Research Center at North Carolina State University. He also served as a research adjunct professor of the Computer Science Department at Michigan State University where he assisted in establishing an advanced research laboratory on high-speed ATM networks and supervised thesis research for several Ph.D. students. In July 1994, Dr. Yegani moved to QUALCOMM where he participated in several key projects focusing CDMA systems design, architecture and standards. He was one of the main contributors for the enhancement of the CDMA air-interface signaling protocol and access network standards. This resulted in publication of several CDMA 2.5G/3G core standards such as IS-95-A/B, IS-634-B, IS-2000 and IS-2001.

In August 1999, Dr. Yegani moved to Ericsson where he continued his role in leading wireless access network standards. As the co-chair of the architecture group in TSG-A 3GPP2 he led an effort to develop the packet data architecture for cdma2000 systems. This resulted in publication of a family of the 3G IOS standards.

In February 2000, he joined Cisco Systems where he is currently a technical leader of the Mobile Wireless Group and a leading member of the Mobile Systems Architectures and Standards Group.

Dr. Yegani is currently the chair of the IP-in-the-RAN working group (WG) of the Mobile Wireless Internet Forum (MWIF) where he is leading an industry wide effort to define an IP-based Open Radio Access Network Architecture. He is also involved in standards activities in TIA, 3GPP2 and IETF. He was previously the chair of the All-IP Ad Hoc group and is currently the vice chair of the 3G access network architecture working group in TSG-A/3GPP2.

Dr. Yegani¹s research interest includes IP routing and switching, mobile wireless network architectures and protocols and high-speed communications networks. He has made significant contributions in the areas of computer communications, wireless communications and high-speed communications networks. He has published some thirty papers in IEEE transactions and other refereed journals and conference proceedings. He has served at different capacities in numerous international conference and is a referee for several international journals. He has given tutorials in leading wireless Internet conferences on the All-IP network architecture and the Open RAN architecture and protocols.

TECHNICAL PROGRAM: SYMPOSIUMS

SoftCOM 2002, October 8-11, 2002
Split, Dubrovnik (Croatia)
Venice, Ancona (Italy)

SYM A - SYMPOSIUM ON TELECOMMUNICATIONS SOFTWARE AND SERVICE DESIGN

SPLIT, Tuesday, October 8

Tuesday, October 8, 15:15-16:45, (BRAC)

SYM A1 - COMMUNICATIONS SOFTWARE 1

Chair: Gottfried Luderer, *Arizona State University, USA*

VoIP – Voice Over the Internet (invited paper)
Gottfried W. R. Luderer, Arizona State University, USA

Definition of formal infrastructure for perception of intelligent agents as »problem solvers«
Marijan Kunstic, Marina Bagic, Faculty of electrical engineering and computing, Croatia; *Oliver Jukic*, ICE systems, Croatia

Remote Control through the Internet Based on Game Theoretical Approach
Jadranka Marasovic, Maja Cic, Goran Seric, Univ. of Split, Croatia

Supplying legacy applications with QoS
Anne Thomas, Technische Universität Dresden, Germany, *Gerald Eichler*, T-Systems Nova, Germany

A New Congestion Control Scheme of unicast Streaming Video
Dan Chen, ZTE Corporation, China

Tuesday, October 8, 17:00-18:30, (BRAC)

SYM A2 - COMMUNICATIONS SOFTWARE 2

Chair: Miljenko Mikuc, *University of Zagreb, Croatia*

Formal Definitions of Language-Based Coverage Metrics in the ontext of the Language-Oriented Approach
Boris Cogan, London Metropolitan University, UK; *Tamara Matveeva, Nataliya Nikiforova*, Russian Academy of Sciences, Russia

Process Measuring and Monitoring in Multi-process industry using Petri Nets
Gordan Topic, Ericsson Nikola Tesla d.d, Croatia; *Dragan Jevtić*, University of Zagreb, Croatia

Fuzzy Cognitive Map Simulation Tool
Meletis Margaritis, Peter Groumpos, University of Patras, Greece; *Chrysostomos Stylios*, University of Ioannina, Greece

Framework for predicting the performance of component-based systems
Daniela Mania & John Murphy, Dublin City University, Ireland

Transaction Distribution Algorithms with User Classes for Distributed Application Performance Optimisation
Octavian Ciuhandu, John Murphy, Dublin City University, Ireland

VENICE, Wednesday, October 9

Wednesday, October 9, 09:00-10:30, (BRAC)

SYM A3 - QoS MANAGEMENT

Chair: Gerald Eichler , T-Systems Nova, Germany

QoS Negotiation Procedure For Distributed Multimedia Applications
M. Bjelica, Z. Petrovic, Faculty of Electrical Engineering, Serbia and Montenegro

A Novel QoS-aware Network for Real-time Streaming Services
Jae-Wook Lee, Tae-Wan Kim, Dae-Ung Kim, Department of Network Service, ETRI, Korea

Wireless Local Area Network: an effective Call Admission Control algorithm to support Quality of Service
G.Razzano, L.Giupponi, R.Cusani, Univ. of Roma "La Sapienza", Italy

Developing new generation network services
P. Asprino, A. Fresa, CoRiTeL, Italy; *G. De Marco, M. Longo*, University of Salerno, Italy

Implementation of a conference service in a 3G architecture
P. Asprino, A. Fresa, CoRiTeL Italy; *P. Vitiello, M. Longo*, University of Salerno, Italy

Wednesday, October 9, 11:00-12:30, (BRAC)

SYM A4 - TELECOMMUNICATIONS SERVICES

Chair: Boris Cogan, London Metropolitan University, UK

Topology Discovery in the Context of Resource Management in IP-Networks
Josef Glasmann, Marie-Mélisande Tromparent, Technische Universität München (TUM), Germany

Network Simulation with Fair Bandwidth Allocation Policy and Centralized Path Bandwidth Control for Elastic Traffic
Michael Logothetis, Ioannis Moscholios, Nikolaos Kotzinos, Univ. of Patras, Greece

Advantages of using a centralized controller to implement Hierarchical WFQ
Miriam López, José R. Gallardo, CICESE Research Center, México

Measurements of Redundant Source-Routing
G. Mazzini , G. P. Nizzoli, P.Bergamo, University of Ferrara, Italy

An Automatic Java Code Generation Tool for Telecom Distributed Systems
Rafael Paoliello Guimarães, Faculdade de Ciências Humanas de Aracruz, Brasil; *Walter da Cunha Borelli*, Univ. Estadual de Campinas, Brasil

A Platform for Gaming in Digital Interactive TV
Bouras Christos, Kapoulas Vaggelis, Misedakis Ioannis, Computer Technology Institute, Greece; and University of Patras, Greece

SYM B - SYMPOSIUM ON INTERNET AND IP BASED ENVIROMENTS AND SERVICES

Wednesday, October 9, 09:00-10:30, (HVAR)

SYM B1 - QoS IN INTERNET ENVIRONMENT

Chair:Algirdas Pakstas, London Metropolitan University, UK

Integrating Technology in Education (invited paper)
Alan Clements, University of Teesside, UK

Link-State QoS Source Routing as a RSVP Killer Reservation Problems Solution
Damir Dlaka, Croatian Telecom Inc., Croatia; *Nikola Rozic*, University of Split, Croatia

Mapping of IntServ/RSVP reservations into MPLS domains
Franco Tommasi, Simone Molendini, Andrea Tricco, University of Lecce, Italy

Architecture of a MPLS Router Supporting Diffserv for QoS and High-speed Switching
Young-Chul Kim, Chonnam National University, Korea

An MPLS based architecture for differentiated Web service
Radu Dragos & Martin Collier, Dublin City University, Ireland

A Distributed Inter-Domain QoS Routing Architecture for Diffserv Networks
Haci A. Mantar, Junseok Hwang, Steve J. Chapin, Ibrahim T. Okumus, Syracuse University

Wednesday, October 9, 11:00-12:30, (HVAR)

SYM B2 - INTERNET TRAFFIC ENGINEERING

Chair: Nikola Pavešić, University of Ljubljana, Slovenia

Biometrics-based user identification for Internet use (invited paper)
Nikola Pavešić, University of Ljubljana, Slovenia; *Slobodan Ribaric*, University of Zagreb, Croatia

Providing Effective Inter-Domain Traffic Engineering in the Internet
Francesco Palmier, University "Federico II" - Napoli, Italy

Analysis of Internet traffic of High-Speed Internet Access Network in KOREA
Ki-Dong Nam, Kug-Chang Kang, Seong Youn Kim, Kyong Ho Lee, Electronics and Telecommunication Research Institute, Korea

IPNetSuite: Traffic Analysis Framework for the Next Generation Mobile Internet
J.Gracin, T.Androlic, S.Pocuca, M.Glavac, I.Ostres, I.Takac, FER and Siemens, Croatia

IP Traceback in Network
Yang Taek Lim , Byung Ha Ahn, Kwangju Institute of Science and Technology, Korea

Heavy Tail Distribution in E-Mail Network
Yihjia Tsai, Ching-Chang Lin, Ping-Nan Hsiao, Tamkang University, Taiwan

Thursday, October 10, 09:00-10:30, (HVAR)

SYM B3 - INTERNET SERVICES

Chair: Roch H. Glitho, Ericsson Research, Canada

A tool for the integration and adaptation of visually impaired and blind people
Prof. Javier Díaz, Mr. José Ferreyra, Lic. Ivana Harari, Universidad Nacional de La Plata, Argentina

Web based remote control of mechanical systems
Philippe Le Parc, Pascal Ogor, Jean Vareille, Lionel Marc, Universite de Bretagne Occidentale, France

An approach to education oriented TCP simulation
Marko Lackovic, Robert Inkret, Miljenko Mikuc, University of Zagreb, Croatia

EbXML as Developing Country E-business Strategy Proposal
Ivan Matasic, Zoran Skocir, University of Zagreb, Zagreb

A Software Architecture for the Provision of Mobile Information Services
Gianpietro Ammendola, Alessandro Andreadis, Giovanni Giambene, Università di Siena, Italy

Experimenting with Web Services in 3G Networks: Early Results
Roch Glitho, Clovis Muhugusa, Andre Poulin, Samer Hawwa, Jean-Charles Beaudin, Ericsson Research Canada, Canad

Thursday, October 10, 11:00-12:30, (HVAR)

SYM B4 - INTERNET PROTOCOLS

Chair: Radu Dragos, Dublin City University, Ireland

Modeling Real Time Streaming Protocol using Petri Nets
Lidija Basic, Ericsson Nikola Tesla, Croatia

Map Discovery Procedures in Internet Protocol Version 6
G. P. Nizzoli, G. Mazzini, University of Ferrara, Italy

Quantitative and Theoretical Analysis of Recovery Convergence in IP networks
Pim Van Heuven, Jan Coppens, Steven Van den Berghe, Didier Collen, Piet Demeester, The Ghent University (RUG), Belgium

Measuring Performance of Dynamic Web Service Migration using LAMS
Trent Mifsud and Peter Stanski, School Of Computer Science and Software Engineering, Australia

Estimating the Impact of Interrupt Coalescing Delays on Steady State TCP Throughput
Marko Zec, Miljenko Mikuc, Mario Zagar, University of Zagreb, Croatia

SYM C - SYMPOSIUM ON FUTURE WIRELESS COMMUNICATIONS

Thursday, October 10, 09:00-10:30, (BRAC)

SYM C1 - PERFORMANCE OF MOBILE/WIRELESS NETWORKS AND SYSTEMS – PART 1

Symposium Organizer: Prof. Mario De Blasi, Univ. of Lecce, Italy
Chair: Prof. Mario De Blasi, University of Lecce, Italy

Impact of the Internet Congestion on the Performance of TCP Using Data Link-Layer Error Control into Mobile Environment (invited paper)
Giovanni Ciccarese, Mario De Blasi, University of Lecce, Italy; Luigi Patrono, ISUF of Lecce,Italy, Giuseppe Tomasicchio,Alenia Spazio, Italy

Qualitative Analysis and Comparison of HMIPv6 and RegRegv6 Protocols
Róbert Schulcz, Sándor Imre, László Pap, Budapest University of Technology and Economics, Hungary

A Novel Forward-Link Packet Data Scheduling Algorithm
WangYafeng, Yang Dacheng, Beijing University of Posts and Telecommunications, China

A Cost Analysis and Efficient QoS Provisioning for Multicasting in Cellular Networks
Nilanjan Banerjee and Sajal K. Das, The University of Texas at Arlington, USA

Enhancing the Channel Utilization of Asynchronous Data Traffic over the Bluetooth Wireless Ad-hoc Network
C. Richard Lin and Jain-Wei Wu, National Sun Yat-Sen University, Taiwan

Thursday, October 10, 11:00-12:30, (BRAC)

SYM C2 - PERFORMANCE OF MOBILE/WIRELESS NETWORKS AND SYSTEMS – PART 2

Symposium organizer: Prof. Mario De Blasi, Univ. of Lecce, Italy
Chair: *Dr. Giuseppe Tomasicchio*, Alenia Spazio of Rome, Italy

A Handover Scheme for Mobile Satellite Communication Systems
Yee-Loo Foo, Kenzo Takahashi, and Sze-Wei Lee, Faculty of Engineering, Multimedia University, Malaysia

TCP Goodput in Ka-Band Satellite Channel with Scintillation and Rain Attenuation
Alessandro Carletti, Giuseppe Tomasicchio, Alenia Spazio, Business Multimedia Unit, Italy; *Giovanni Ciccarese, Mario De Blasi*, University of Lecce, Italy; *Luigi Patrono*, ISUFI of Lecce, Italy

Interruption-free handoff using adaptive playout mechanisms of packet voice
Yi-shou Chen, National Tsing Hua University , Taiwan; *Jen-yi Pan*, National Chung Chen University, Taiwan

Performance modeling and evaluation of call admission control with handoff priority in personal communication core network based on packet voice technology
Yi-yi Pan, National Chung Cheng University, Taiwan; *Jen-shou Chen*, National Tsing Hua University, Taiwan

On the Joint Implications of Internet RTT, Traffic Mix and Wireless Links on TCP
Vasilis Friderikos, Hamid Aghvami

Thursday, October 10, 15:15-17:30, (BRAC)

SYM C3 - QUALITY OF SERVICE IN WIRELESS NETWORKS: MECHANISMS, PROTOCOLS, APPLICATIONS AND SERVICES

Symposium organizer: Prof. Mario De Blasi, Univ. of Lecce, Italy
Chair: Eng. Francesco Tommasi , University of Lecce, Italy

Adaptive Routing in Intersatellite Link Networks (Invited Paper)
Mihael Mohorcic , Gorazd Kandus, Institut Jozef Stefan, Slovenia

The Satellite Multicast Distribution Protocol (SMDP)
Francesco Tommasi, Simone Molendini and Antonio Vilei, University of Lecce, Italy

VMMA: a Virtual Museum Multi-channel Application for fixed and mobile communication
Anna Gentile, University of Lecce, Italy; *G. Ilenia Paladini*, ISUF of Lecce, Italy

Optimized Effective Bandwidth Based Admission Control for Multi-Service CDMA Cellular Networks
Sándor Imre, Krisztián Hankó, Péter Petrás, Róbert Tancsics, Budapest University of Technology and Economics, Hungary

Mobile SCTP Transport Layer Mobility Management for the Internet
Maximilian Riegel, Michael Tüxen, Siemens AG, Germany

Mobile Serverless Video Conferencing – Towards a Next Generation Internet Application
Thomas C. Schmidt, Matthias Wählisch, Hans L. Cycon, Mark Palkow, Fachhochschule für Technik und Wirtschaft Berlin, Germany

Building Presence Service on 3G Networks
Juha Kalliokulju, Nokia Mobile Phones Ltd., Finland

TECHNICAL PROGRAM: SPECIAL SESSIONS

SoftCOM 2002, October 08-11, 2002
Split, Dubrovnik (Croatia)
Venice, Ancona (Italy)

SPLIT, Tuesday, October 8

Tuesday, October 8, 15:15-16:45, (KORCULA)

SS1 - SPECIAL SESSION ON SOFTWARE AGENTS – PART 1

Session Organizer: Darko Stipaničev, University of Split, Croatia
Chair: Darko Stipaničev, University of Split, Croatia

Role Modeling inMulti-agent System for QoS Management
Krunoslav Tržec, Ericsson Nikola Tesla, Croatia; *Branko Mikac*, University of Zagreb, Croatia

Application of Mobile Software Agents on Control and Maintenance of the Computer Network
Juraj Puksec, Ozren Labor, Darko Huljenic, Ericsson Nikola Tesla, Croatia

Mobile Agents in Use: Performance Issue
Ozren Labor, Sasa Dešić, Ericsson Nikola Tesla, Croatia; *Gordan Ježić, Mario Kušek, University of Zagreb*, Croatia

Load Balancing: Moving Toward Mobility and Intelligence
S.Desic, D.Gvozdanovic, O.Labor, Ericsson Nikola Tesla, Croatia

An Empirical Evaluation of E-Salespersons for E-Commerce
F. Abbattista, M. Degemmis, P. Lops, G. Semeraro, Università di Bari, Italy; *V. Andersen, H.H.K. Andersen,* Risoe National Laboratory, Denmark

Tuesday, October 8, 17:00-18:30, (KORCULA)

SS1 - SPECIAL SESSION ON SOFTWARE AGENTS – PART 2

Session organizer: Darko Stipaničev, University of Split, Croatia
Chair: Darko Stipaničev, University of Split, Croatia

Modelling of Agent Computations Using the Temporal Logic of Actions
Tatjana Kapus, University of Maribor, Slovenia

Agent message router service
Maja Štula, Darko Stipaničev, Mirjana Bonković ,University of Split, Croatia

Travelling Actors Multimodal Interaction with Mobile Agents
Ulrich Pinsdorf, Fraunhofer Institute for Computer Graphics, Germany

An Actor-Based Design Architecture for Distributed Synchronizable Applications
Thierry villemur, LAAS du CNRS, France

Context-Aware Services based on Secure Mobile Agents
Ulrich Pinsdorf, Jan Peters, Fraunhofer Institute for Computer Graphics, Germany; *Mario Hoffmann and Piklu Gupta,* Fraunhofer Institute for Integrated Publication and Information Systems, Germany

VENICE, Wednesday, October 9

Wednesday, October 9, 15:15-16:45, (BRAC)

SS2 - SPECIAL SESSION ON COMMUNICATIONS WITH ACTIVE SIMULATION NETWORKS (CASN)

Session Organizer: Drissa Houatra, France Telecom R&D, France
Chair: Drissa Houatra, France Telecom R&D, France

Network Model for the Provision of Active Multicast Services (Invited Paper)
Drissa Houatra, France Telecom R&D, France; *Ermolaos Zimboulakis*, National Technical University of Athens, Greece

PIRST-ONs: A Service Architecture for Embedding and Leveraging Active- and Programmable Networks Technology
Christian Bachmeir, Peter Tabery, Technische Universität München, Germany

Limited Range Wavelength Conversion in All-Optical Wavelength-Routed Networks with Dynamic Traffic
Lan Kong and Jitender Deogun, University of Nebraska-Lincoln, USA

A proposed architecture for integrating Active Networks and MPLS
Sanda Dragos & Martin Collier, Dublin City University, Ireland

Interoperating Execution Environments in Active Networks
Eddie Law, Roy Leung, University of Toronto, Canada

Framework for optimal deployment schema in Component-based System
Nicolae Dumitrascu, Liam Murphy, Univ. College Dublin, Ireland

DUBROVNIK, Friday, October 11

Friday, October 11, 09:00-10:30, (HVAR)

SS3 - SPECIAL SEESSION ON DATABASE TECHNOLOGIES, MODELS, APPLICATIONS AND TRENDS

Session organizer: Zoran Skočir, University of Zagreb, Croatia
Chair: Zoran Skočir, University of Zagreb, Croatia

EbXML Registry/Repository Implementation
Ivan Magdalenic, Ivan Matasic, Damir Pintar, Ivo Pejakovic, Mihaela Sokic, University of Zagreb, Croatia

Web Application for Analysis of Hydrological Conditions in River Navigation
Hrvoje Tonković, Zoran Skočir, University of Zagreb,, Croatia; *Jadranka Pečar-Ilić, Ivica Ruzić,* Ruđer Bosković Institute, Croatia
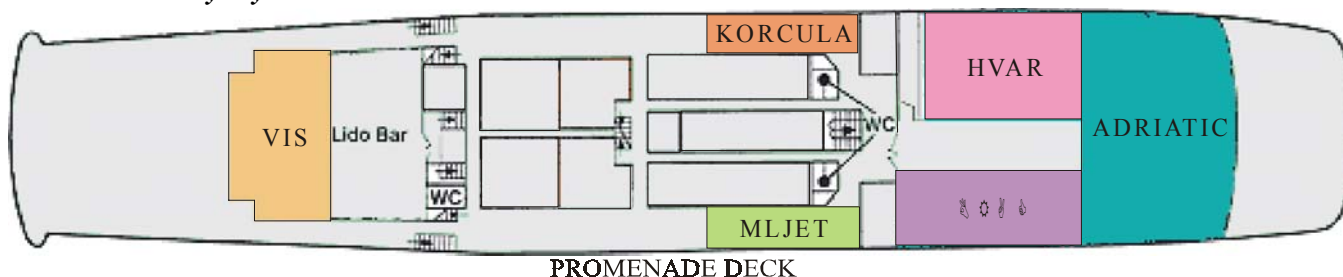
TIMETABLE A: TECHNICAL PROGRAM, TUTORIALS & WORKSHOP

Time / Hall	BRAC	HVAR	VIS	KORCULA
SPLIT, Tuesday, October 8				
09:00-10:30			WSCC – Workshop on Contemporary Communications-Part 1	**T3 – Interaction of Humans with Comm. Systems EM Fields**
11:00-12:00	PLENARY SESSION *(ADRIATIC)*			
12:00-13:30	OPENING CEREMONY *(ADRIATIC)*			
15:15-16:45	SYM A1 – Communications Software 1	Joint Session SoftCOM - LHC Days - GRID	WSCC – Workshop on Contemporary Communications-Part 2	SS1 – Software Agents Part 1
17:00-18:30	SYM A2 – Communications Software 2			SS1 – Software Agents Part 2

Time / Hall	BRAC	HVAR	VIS	KORCULA
VENICE, Wednesday, October 9				
09:00-10:30	SYM A3 – QoS Management	SYM B1 – QoS in Internet Environment	**T5 – QoS in the Next Generation of Wireless Networks**	**T2 – Some Implementations of Graphical Modeling in OpenGL**
11:00-12:30	SYM A4 –Telecommunication Services	SYM B2 – Internet Traffic Engineering		
15:15-16:45	S7 – High-Speed Protocols and Networks	S1 – Wireless Channels and Propagation	S6 – Multimedia and Virtual Reality Services	
17:00-18:30	SS2 – Communications with Active Simulation Networks	S2 – Mobility, Location and Detection	Invited Talk – Universal Brain Network	

Time / Hall	BRAC	HVAR	VIS	KORCULA
ANCONA, Thursday, October 10				
09:00-10:30	SYM C1 – Mobile/Wireless Networks and Systems - 1	SYM B3 – Internet Services	S11 – Optical and Photonic Communications 1	**T4 – VoIP - Voice Over the Internet**
11:00-12:30	SYM C2 – Mobile/Wireless Networks and Systems - 2	SYM B4 – Internet Protocols	S12 – Optical and Photonic Communications 2	
15:15-16:45	SYM C3 – QoS in Wireless Networks	S3 – Mobile and Wireless Communications 1	S10 – Header Compression in IP Based Protocols	**T6 – Engineering Value Added Services in Internet Telephony**
17:00-18:30		S4 – Mobile and Wireless Communications 2	S5 – Signal Processing, Modulation and Coding	

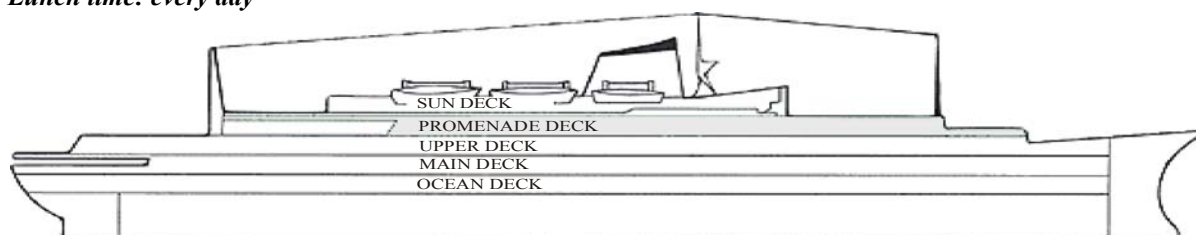| Time / Hall	BRAC	HVAR	VIS	KORCULA
DUBROVNIK, Friday, October 11				
09:00-10:30	S8 – Network Operation and Management	SS3 – Database Technologies	**T1 – Role of Reliability in Computer Network Design**	**T7 – Mobile Wireless Internet Architecture and Protocols**
11:00-12:30	S9 – Traffic Management and Network Modeling	SS4 – EMC in Communication Systems		

Lunch time:every day 13:00-15:00

PROMENADE DECK

TIMETABLE B: BUSINESS FORUM

Time / Hall	MLJET	ADRIATIC
SPLIT, Tuesday, October 8		
09:00-10:30	Business Forum ITS: Part 1	
		VIPnet Prezentacija 10:30-11:00
11:00-12:00	PLENARY SESSION *(ADRIATIC)*	
12:00-13:30	OPENING CEREMONY *(ADRIATIC)*	
15:15-16:45		CROATIAN TELECOM Fast Internet Access
17:00-17:45		BF Invited talk Zoran Milić
17:45-18:30		BF Invited talk Jack Howley

Time / Hall	MLJET	ADRIATIC
VENICE, Wednesday, October 9		
09:00-10:30	Business Forum Business and Social Aspects ICT	Business Forum ITS: Part 2
11:00-12:30		City/County Meetings VENICE - SPLIT
15:15-16:45		
17:00-18:30		

Time / Hall	MLJET	ADRIATIC
ANCONA, Thursday, October 10		
09:00-09:45	Business Forum (ROUND TABLE)	BF Invited talk Antun Carić, Ericsson
09:45-10:30		BF Invited talk Zoran Milić
11:00-12:30		City/County Meetings ANCONA - SPLIT
15:15-16:45		
17:00-17:45	BF Invited talk Branko Souček	BF Invited talk Juraj Buzolić
17:45-18:30		BF Invited talk Ante Dodig

Time / Hall	MLJET	ADRIATIC
DUBROVNIK, Friday, October 11		
09:00-10:30	Inteligencija u Telekomunikacijama	BF Invited talk Branimir Lukšić, County Prefect
11:00-12:30	Business Forum HT Presentation	City/County Meetings DUBROVNIK - SPLIT

Lunch time: every day

SUN DECK
PROMENADE DECK
UPPER DECK
MAIN DECK
OCEAN DECK

Design of an Object-Relational Database on River Navigation
Sonja Bec, Zoran Skocir, University of Zagreb, Croatia; *Jadranka Pecar-Ilic, Ivica Ruzic,* Ruđer Boskovic Institute, Croatia

An Architecture of a Call Controller System of the Converged-LAN
Mi-Ryong Park, Kyou-ho Lee, Joo-Myung Seok, Internet Tehnology Department, ETRI, Korea

Building a Data Warehouse for Exam Analysis
Ante Lausic, Boris Vrdoljak, University of Zagreb, Croatia

Friday, October 11, 11:00-12:30, (HVAR)

SS4 - SPECIAL SESSION ON EMC IN COMMUNICATION SYSTEMS

Session organizer: Vesna Roje, University of Split, Croatia
Chair: Vesna Roje, University of Split, Croatia

Assesment of the health risk in the vicinity of the GSM base station (Invited Paper)*
V. Roje, D. Poljak, University of Split, Croatia; *A. Sarolic,* University of Zagreb, Croatia

Numerical power amplification/attenuation in the ADI-FDTD and FD-BPM for Electromagnetic Wave Propagation Modelling (Invited Paper)
Lubomir Sumichrast, Slovak University of Technology, Slovakia

Model of the Human Body for Time Harmonic and Transient Exposures – A Review (Invited Paper)
Dragan Poljak, University of Split, Croatia

FEM Analysis of Overvoltage Protection Device Including Grounding Electrodes
R.Lucic, M.Kurtovic, S.Vujevic, University of Split, Croatia

Measurements of GSM phone emission
Kresimir Malaric, University of Zagreb, Croatia

SPLIT, Tuesday, October 8

Tuesday, October 8, 15:15-18:30, (HVAR)

JOINT SESSION: LHC DAYS and SoftCOM

Chair: Guy Paic, CERN, Switzerland

Software and Computing in the CMS Experiment
Veronique Lefebure, Institute of Physics, Finland

Data Acquisition System of the ALICE Experiment
P. Vande Vyvre, CERN, Switzerland

GRID project
F. Carminati, CERN, Switzerland

ALICE production environment on the GRID
P. Buncic, CERN, Switzerland

AFFAIR: System and Applications Monitoring of Distributed Computer Systems
T. Anticic, IRB, Croatia

Evaluating Scheduling Algorithms in a Data Grid Network
Marcelo Casstelano, Giacomo Piscitelli, Nicola Simeone, Poliethnic of Bari, Italy

EDMS: CERN Engineering Data Management System
E. Manola, CERN, Switzerland

VENICE, Wednesday, October 9

Wednesday, October 9, 17:00-18:30, (VIS)

INVITED SPEAKER SESSION

Universal Brain Network Smarter than Humans (Invited Paper)
Branko Soucek, IRIS, Italy

The Brain-Mind Tissue (Invited Paper)
Branko Soucek, IRIS, Italy

TECHNICAL PROGRAM: GENERAL CONFERENCE

SoftCOM 2002, October 08-11, 2002
Split, Dubrovnik (Croatia)
Venice, Ancona (Italy)

Wednesday, October 9, 15:15-16:45, (HVAR)

S1 - WIRELESS CHANNELS AND PROPAGATION

Chair: *Giacomo Bucci,* Università di Firenze, Italy

Influencing Factor for OFDM System Performance in a Varying Channel
H.Che, L.P.Ligthart, Delft University of Technology,Netherland; *R.Prasad*, Aalborg University, Denmark

Analysis of TFCI Performance in Fading Channels
Oliver Klein, Ericsson Eurolab, Germany

The Analysis of Temporal Corruption Propagation Influence during Transmission of the Compressed Video Signal
W.Afrić, N. Matošić,D. Vakante, Croatian Telecom Inc., Croatia

The Effect of The Path Loss on W-CDMA Uplink Performance.
Bazil Taha Ahmed, Miguel Calvo Ramón, Leandro de Haro Ariet, Universidad Politécnica de Madrid, España

The Analysis of UGTD Simulation for 900MHz Single-Floor Propagation
I.Marinovic, I.Zanchi, Z.Blazevic, University of Split, Croatia

Using Petri Nets in evaluating mobile communication systems: a case study
Giacomo Bucci, Andrea Fedeli, Enrico Vicario, Univ. di Firenze, Italy

Wednesday, October 9, 17:00-18:30, (HVAR)

S2 - MOBILITY, LOCATION AND DETECTION

Chair: *Klaus Knoche,* University of Bremen, Germany

SIP-based Location Aware Services
N.Priggouris, S.Paskalis, S.Hadjiefthymiades, L.Merakos, University of Athens, Greece; *D.Vali,OTE Reserch, Greece*

Efficient linear Multiuser Detection for LEO Satellite Systems with Long Codes
Stephan Fischer, Klaus Knoche, Volker Kühn, Karl-Dirk Kammeyer, University of Bremen, Germany

Design and Implementation of IP over Bluetooth for IP Mobility Support in a Heterogeneous Environment
Vrizlynn L. L. Thing, Henry C. J. Lee, Xiao Ni, Daqing Zhang, Laboratories for Information Technology, Singapore

On the Accuracy of Mobility Modelling in Wireless Networks
Alexandrosz Burulitisz, Balázs Rózsás, Sándor Szabó, dr. Sándor Imre, Technical University of Budapest, Hungary

Mobile Management of local Infrastructure
Gerrit Kalkbrenner, Enrico Köppe, Universität Potsdam, Germany

Local Positioning and Bluetooth Wireless Technology
A. Restović, Z. Civadelić, Ericsson Nikola Tesla, Croatia; H. Dujmić, University of Split, Croatia

Thursday, October 10, 15:15-16:45, (HVAR)

S3 - MOBILE AND WIRELESS COMMUNICATIONS 1

Chair:, *Branka Zovko-Cihlar,* University of Zagreb, Croatia

Digital Video Processing in Wireless Multimedia
Branka Zovko-Cihlar, Sonja Grgic, University of Zagreb, Croatia

Improved Coded Bit Allocation Scheme in Multicarrier System over Time-Varying Channels
Junqiang Li, Hojin Kim, and Yongseok Lee, Samsung Advanced Institute of Technology, Korea

Probabilistic approach for evaluation of service quality in GSM networks in frequency hopping situations
Pascal Chambreuil, Denis Renaud, France Telecom R&D, France

The Capacity of Air-Ground W-CDMA System (Downlink Analysis)
Bazil Taha Ahmed, Miguel Calvo Ramón and Leandro de Haro y Ariet, Universidad Politécnica de Madrid, Spain

An Efficient Clustering Scheme for High Altitude Platform Mobile Communications
Yasser Albagory, Faculty of Electronic Eng., Egypt

Investigating the Rotational Motion Effects of the High Altitude Platforms on Mobile Communications
Yasser Albagory, Faculty of Electronic Eng., Egypt

Thursday, October 10, 17:00-18:30, (HVAR)

S4 - MOBILE AND WIRELESS COMMUNICATIONS 2

Chair:*Pascal LORENZ, Universite de Haute Alsace, FRANCE*

A Study of Resource Allocation Schemes for DVB-RCS systems
Tan Cheng Kok, Lujiang Zhou, i-Tech Academy, Canada

GSM/GPRS-WLAN Interworking Solutions
I.Arambasic, I.Raos, F.J.C.Quiros, University of Madrid, Spain; *D.Begusic*, University of Split, Croatia

An Adaptive Limited Fractional Guard Channel Policy Using Continuous Action Learning Automata
Hamid Beigy, M.R.Meybodi, Amirkabir University of Tehnology,Iran

A High-Speed Optimal Channel Assignment using Recursive Search in Cellular Wireless Networks
Wuyi Yue, Koji Miyazaki, Xiaotei Deng, Konan University, Japan

Fair Polling Algorithm for Bluetooth MAC
I. Stojan, Ericsson Nikola Tesla d.d., Croatia; *N. Rozic*, University of Split, Croatia

Reverse Orobability Density of Channel Utilisation as an Evaluation Solution for 1G to 3G Networks
V. Ivček, D. Jurak, D. Virkes, Croatian Telecom, Zagreb

Thursday, October 10, 17:00-18:30 (VIS)

S5 - SIGNAL PROCESSING, MODULATION AND CODING

Chair: France Mihelic, University of Ljubljana, Slovenia

A New Hierarchical Video Retrieval Algorithm In Compressed Domain
Liu Yang, Zhang Huanqiang, Wu Zhimei, Chinese Academy of Sciences, China

The Performance Comparison of QAM and VMSK Modulation Techniques in the Closed Environment of the VDSL Technology
MSc. Rastislav Róka, Slovak Univ. of Technology, Slovak Republic

A Blind Receiver for MDPSK Signals
Han Gang, LI Jiandong, Chen Chen, Xidian University, China

Problems in Applying Arithmetic Operations in Medical Imaging: X-Ray Example
Igor Vujovic, Ivica Kuzmanic, Split College of Maritime Studies, Croatia; *Mirjana Vujovic*, Specialist office of occupational medicine, Croatia

An Extended Kalman-Based Algorithm for Time Varying DOA Estimation
E. N. Demiris, University of Patras, Greece, *S. D. Likothanassis*, Computer Tehnology Institute, University of Patras, Greece, *B. G. Konstantopoulu*, Hellenic Ministry of Finance, Greece

Development of o SLO-CRO Bilingual Speech Database
France Mihelic, Janez Zibert, University of Ljubljana, Slovenia; *Ivo Ipsic, Sanda Martincic-Ipsic*, University of Rijeka, Croatia

VENICE, Wednesday, October 9

Wednesday, October 9, 15:15-16:45, (VIS)

S6 - MULTIMEDIA AND VIRTUAL REALITY SERVICES

Chair: Yoshiyasu Takahashi, University of Tokyo, Japan

Defining a Service Framework for Virtual Reality: the Case of Interactive Networked Games
Drissa Houatra, France Telecom R&D, France

Archive-based Content Production Featuring MPEG-7 Description
Haruo Hiki, Manabu Ito, Youichi Ishibashi, Telecommunications Advancement Organization of Japan; *Fumio Hasegawa*, Tohoku University of Art and Design, Japan

The BIFS Generation Module for an Intuitive MPEG-4 Authoring System
Suyoung Bae and Pyeongsoo Mah, Electronics and Telecommunications Research Institute, Korea, *Sangwook Kim*, Kyuangpook National University, Korea

Content Fingerprinting for Multicast Networks
Yoshiyasu Takahashi, Terumasa Aoki, Hiroshi Yasuda, University of Tokyo, Japan

Dialogue Manager Development Based on Formalization of Authentic Dialogues
Václav Matoušek, Jana Klečková, Jana Krutišova, University of West Bohemia in Plzeň, Czech Republic; *Jana Schwarz*, Technical University of Dresden, Germany

MPEG-4 Facial Animation System for Handheld Devices
Hrvoje Komericki and Mario Kusek, University of Zagreb, Croatia

Compression of Wideband Sound for Multimedia Application
Adrian Rominski, Zygmunt Ciota, Technical Univ. of Lodz, Poland

A Multimedia Enviroment for the Speech and Language Impaired
Voula C. Georgopoulos, Georgia A. Malandraki, Technological Educational Institute of Patras, Greece; *Chrysostomos D. Stylios*, University of Ioannina, Greece

Wednesday, October 9, 15:15-16:45, (BRAC)

S7 - HIGH-SPEED PROTOCOLS AND NETWORKS

Chair: Karian Faez, Amirkabir University of Technology, Iran

A Study on the Effect of an ATM Switch Overload to the ATM SPVC's Circuits Reconnection Time
K. Chertouras, General Perihpheral Hospital of Thessaloniki, Greece

Efficient Multicast Routing with Multiple QoS Constraints Based on Genetic Algorithms
A. T. Haghighat, Atomic Energy Organization of Iran, Iran; *K. Faez, A. Mowlaei, Y. Ghahremani*, Amirkabir University of Technology , Iran; *M. Dehghan*, Iran Telecommunication research Center (ITRC), Iran

Scalable and High Throughput Digital Switching in the Quantum Domain
I-Ming Tsai and Sy-Yen Kuo, National Taiwan University, Taiwan

Performance Analysis of a CIOQ ATM Switch with m Internal links for Cell Transfer
Carlos Roberto dos Santos, Shusaburo Motoyama, Brazil

Performance Comparison of Routing Algorithms for MPLS-based Traffic Engineering under Heterogeneous Traffic
K. Hendling and K. Bengi, Vienna University of Technology, Austria

Diff. Serv/MPLS QoS Method for Real-Time Services in an MPLS-based ISP Network
Aljoša Pavelin, Development Dept. TC Split,*, Dinko Delić*, Data and IP Services Dept., Croati

Friday, October 11, 9:00-10:30, (BRAC)

S8 - NETWORK OPERATION AND MANAGEMENT

Chair: Marija Vrdoljak, University of Split, Croatia

SNMP Based Proxy for Secure Network Management
A.Bažant, J.Gracin, I.-Z.Vrdoljak, B.Tomić, T.Boroša, I.Brčić, FER and Siemens, Croatia

Plug-and-Play Network Management Model Based on Mobile Agents
Nan Guo, Hong Zhao, Software Center of Northeastern Univ., China

A Policy Selector for Policy-based Management Systems
Angélica Reyes, Antonio Barba, Polytechnic University of Catalonia, Spain

On providing a Dynamic QoS Management system for IP networks
L.Dimopoulou, P.Sampatakos, E.Nikolouzou, I. S. Venieris, National Technical University of Athens, Greece; *Y. Karadimas*, Q-Systems, Greece

A Path-Color Based Admission Control Algorithm For a Bandwidth Broker in Differentiated Services
Ji-Eon Kim, Soo-Hyun Choi, and You-Hyeon Jeong, Electronics and Telecommunications Research Institute, Korea

Flexible Resource Allocation Scheme Performance Evaluation in EuroSkyWay Multimedia Satellite System
P. Camarda, M. Castellano, G. Piscitelli, D. Striccoli, Politecnico di Bari, Italy; *G. Tomasicchio*, Business Multimedia Unit, Italy

Friday, October 11, 11:00-12:30, (BRAC)

S9 - TRAFFIC MANAGEMENT AND NETWORK MODELING

Chair: Gábor Németh, Budapest University of Technology and Economics, Hungary

The impact of output cell number on allowable maximum load and optimal loss threshold positions
Milutin Kapov, Marija Vrdoljak, University of Split, Croatia

Knowledge Based Generic Model of Intelligent Networks
Gábor Németh, Budapest University of Technology and Economics, Hungary

Application of Stochastic Activity Networks on Network Modeling
M. Abdollahi Azgomi and A. Movaghar, Sharif University of Technology, Iran

Modelling IP Network Topologies by Emulating Network Development Processes
Jason Spencer, Lionel Sacks, University College London, UK

A Decomposition Method to Estimate the Source to Destination Traffic Demand Matrix from Link Measurement
Gerhard Haßlinger, Deutsche Telekom, Germany

Impact of resource reservation schemes for handoff on blocking probability in mobile wireless networks
Vedran Božić,Croatian Telecom Inc. – Telecommunications Center Split, Croatia

Thursday, October 10, 15:15-16:45, (VIS)

S10 - HEADER COMPRESSION IN IP BASED PROTOCOLS

Chair: Julije Ožegović, University of Split, Croatia

EPIC: provably optimal format encoding for compression in the Internet
Richard Price, Abigail Surtees, Stephen McCann, Mark West, Robert Hancock, Dave Findlay, Siemens/Roke Manor Research Limited, UK

Header and Signalling Compression for Cellular Systems
Abigail Surtees, Richard Price, Mark West, Robert Hancock, Paul Ollis, Stephen McCann, Siemens/Roke Manor Research Limited, UK

Optimal syntax for packet header compression specification
Julije Ozegovic, University of Split, Croatia

EPIC Lite offline processing
Mia Cizmic, Kron, Croatia; *Tijana Vodopija,* Siemens, Croatia; *Julije Ozegovic*, University of Split, Croatia

Program structures for EPIC-LITE experimental implementation
Linda Vidjak, Maja Stula, Julije Ozegovic, University of Split, Croatia

Testbed for header compression implementation
Mario Mornar, Alen Pezelj, Croatian Telecom, Croatia; *Julije Ozegovic*, University of Split, Croatia

Thursday, October 10, 09:00-10:30, (VIS)

S11 - OPTICAL AND PHOTONIC COMMUNICATIONS PART 1

Chair: Horst Besier, T-System T-Nova, Germay

Dynamic Network Bandwidth Allocation for VoD over Passive Optical Networks
Lu Chao, Ouyang Yue, Nanyang Technological University, Singapore

New Approach in Optical Data Ring Network Construction
David Meghavoryan, Komitas Stepanyan, Zaven Kalayjian, Epygi Labs AM, Armenia

Optical Packet Switching with Packet Aggregation
Tamer Khattab, Amr Mohamed, Ayman Kaheel, and Hussein Alnuweiri, University of British Columbia, Canada

A Novel Access Protocol Supporting IP Packets in a Slotted Packet-Switched WDM Metro Ring Network
A. Schiffermuller and K. Bengi, Vienna University of Technology, Austria

S12 - OPTICAL AND PHOTONIC COMMUNICATIONS PART 2

Chair: Horst Besier, T-System T-Nova, Germany

A Heuristic Algorithm for Designing Logical Topologies in Packet Networks with Wavelength Routing
Marije Ljolje and Branko Mikac, University of Zagreb, Croatia

Reliability and Cost Analysis of a Multicasting and Fault-Tolerant Optical Crossconnect for All-Optical Networks
Chi-Yuan Chang, Sy-Yen Kuo, National Taiwan University, Taiwan

A Study on SAN protocol over IP in Optical Subscriber Access Network
Kwang Soo Cho, Tae Jun Park, Jung Sik Kim, Electronics and Telecommunications Research Institute, Korea; *Won Don Lee,* Chungnam National Univ., Korea

Performance Analysis of Wavelength Routed Networks with Shortest Path Routing Over Degree Four Topologies
Mário M. Freire, Joel J. P. C. Rodrigues, University of Beira Interior, Portugal; *Rui M. F. Coelho*, Polytechnic Institute of Castelo Branco, Portugal

SoftCOM 2002 Professional Program

SoftCOM 2002, October 8-11, 2002
Split, Dubrovnik (Croatia)
Venice, Ancona (Italy)

WORKSHOP ON CONTEMPORARY COMMUNICATIONS

SPLIT, Tuesday, October 8

Tuesday, October 8, 09:00-11:00, (VIS)

WSCC - WORKSHOP ON CONTEMPORARY COMMUNICATIONS Part 1

Chair: Marija Vrdoljak, University of Split, Croatia

A Quality of Service Routing Algorithm for Improvement of Perfpmance in ATM Switching System
Hyun-Soon Shin, Sang-Sig Nam, Electronics and Telecommunications Research Institute, Korea; *Sang-Ho Lee*, Mi-Yea Shin, Chungbuk National University, Korea

The Uplink Capacity of Band–limited CDMA System
Bazil Taha Ahmed, Miguel Calvo Ramón, Leandro de Haro Ariet, Universidad Politécnica de Madrid, Spain

University Model to Design Ad Hoc Networks
János Horváth Cz., Sándor Imre, Budapest University of Technology and Economics, Hungary

Introducing new services to existing ISDN
Kresimir Zujić, Croatian Telecom, Croatia

Proposal of a Ubiquitous Workflow Process management Framework
R.P.C.do Nascimento, J.A.C.Martins, J.M.S.Pinto, Universidade de Aveiro, Portugal

Changing factors in value chain of Korean telecommunication industry: in fixedmobile convergence environment
Hyun M. Shin, Electronics and Telecommunications Research Institute; *Yuseong-Gu*, Daejeon, Korea

A Problem Solving Environment for Electronic Commerce and Collaborative Work in the Housing Industry
Jungang Xu, Xiaoqiang Yi, Hongan Wang, Guozhong Dai, Chinese Academy of Sciences, China

A LAN Performance Metrics for a Real-Time Environment
Ivan Vilović, Polytechnic of Dubrovnik, Croatia

Service Evolution in ADSL Access Network
Krešimir Krajinović, Croatian Telecom Split, Croatia

Tuesday, October 8, 15:15-18:30, (VIS)

WSCC - WORKSHOP ON CONTEMPORARY COMMUNICATIONS Part 2

Chair: Milutin Kapov, University of Split, Croatia

Wireless Middleware
Zoran Civadelić, Danijela Oreb, Ericsson Nikola Tesla d.d., *Dinko Begušić,* FESB, University of Split,Croatia

The Revenue Potential of Messaging
Valentina Valenteković, Croatian Telecom TC Split, Croatia

Reduction of Bandwidth Requirements in Transmission of MPEG Video over Third-Generation Wireless Network
Vedran Bozic, Croatian Telecom Inc., Croatia

From Call Control towards Service Control in Next Generation Networks
Natalia Kryvinska, Harmen R. van As, Vienna University of Technology, Austria

Challenges, Opportunities, and Solutions for Providing Secure IT Infrastructure
Eddie Rabinovitch, VP Global Networks and Infrastructure Operations, USA

Implementation of QoS differentiated and highly reliable MPLS-based IP-VPN
Sunhee Yang, HoSun Yoon, Hoyong Ryu, Yoo-Kyoung Lee, Electronic and Telecommunications Research Institute, Korea

Bit Rate Capabilities for UMTS Today and in the Future
Ivan Pišmiš, Ericsson Nikola Tesla d.d., Croatia

Data-based Approach in Cellular Network Management System
Mladen Franic, Ivo Cipcic, Ivana Sekula, Croatian Telecom inc., Croatia

UML in Business Process Modelling
Mirta Međimorec, Kristina Musa, HT, Croatia

Developing Wireless Middleware Module using UML
Danijela Oreb, Ivica Cubic, Ivo Stojan, Ericsson Nikola Tesla, Croatia

Wireless Middleware
Zoran Civadelić, Danijela Oreb, Ericsson Nikola Tesla d.d., Croatia; *Dinko Begušić,FESB,* University of Split, Croatia

Development of HT Infoweb Data Warehousing System
Tomislav Delaš, HT, Croatia

IP over cable data networks: upgrading of catv networks
Damir Kovačić, Hrvatski Telekom - TKC Split, Croatia

BUSINESS FORUM

SoftCOM 2002, October 8-11, 2002
Split, Dubrovnik (Croatia)
Venice, Ancona (Italy)

BUISNESS FORUM: INVITED SPEAKERS

ANCONA, Thursaday, October 10, 09:00-09:45, (ADRIATIC)

ICT STRATEGY – ONE YEAR AFTER

Antun Carić, Ericsson NT Zagreb, CROATIA

Biography: Antun Carić**:** Recved his B.S., M.S., and Ph. from the University of Zagreb.He is an assistent profesor at the university in the Faculty of Electrical Engineering and Computer Science.He is director of R&D division in Ericsson Croatia. His courrent fields of interest include research and divolpment, software design, network signaling and control, open systems, and new network services and applications.

ANCONA, Thursday, October 10, 17:45-18:30, (ADRIATIC)

AN EFFECT OF LEGISLATION ON TELECOMMUNICATION MARKET GROWTH IN REPUBLIC OF CROATIA

Ante Dodig, Croatian Institute of Telecommunications, Croatia

Biography: Ante Dodig, dipl. ing. graduated in electrical engineering the University of Split,Croatia. He was an assistent director of the company "Promet" in 1997 – 2000. From 2000 to 2002 he was appointed Deputy Minister in the Ministry of Maritime, Transport and Communications. Recently he has been appointed the Director of the Croatian Institute of Telecommunications.

TELECOMMUNICATION SUPPORT SYSTEMS FOR PUBLIC SAFETY ANSWERING POINTS

Juraj Buzolic, Director of Croatian Telecom, CROATIA

Nenad Mladineo, Snjezana Knezic, University of Split, Faculty of Civil Engineering, Croatia

Biography: Juraj Buzolić received his diploma and M.S. degree in Electrical Engineering in 1977 and 1984 respectively, from the Split University. Since 1990, he has been Managing Director of the Croatian Post and Telecom - Telecommunication Center Split. His research interest is in the area of telecommunication system management and strategic planning including network exploitation and introduction of new services. He is author of a number of papers published in journals and proceedings. He is a member of the Government Board for Telecommunications and Transport of the Republic of Croatia. J. Buzolic has been a General Chair of the Conference on Software in Telecommunications and Computer Networks -SoftCOM for ten years.

POWER OF MORAL AND ETHICS IN BUSINESS DEALING

Jack Hawley, Managment and Consulting, USA

Biography: Jack Hawley obtained his B. Sc. Degree from the University Cornell and Columbia Pacific, with the theme «Industrial and work relationships». He obtained his Doctor's Degree in the issue of behavior and was lecturing at several universities (Cornell, Pepperdine, University of California, Riverside).Dr. Jack Hawley is the founder of Team Climate Associates and the president of his own management consulting firm that works with large private and government organizations on matters of organizational transformation-the infusion of new energy, heart, and spirit for raising productivity and creating improved working environments.

FOREIGN INVESTMENTS IN CROATIA

Branimir Lukšić, Governor of the County Split and Dalmatia, Croatia

Biography: Born in Split on 23 October 1935. Graduated, won his master's and doctor's degrees in law at the University of Zagreb, Faculty of Law. After getting a degree in law he got a degree in philosophy at the University of Zagreb, Theological Faculty.

After taking his law degree he worked in Split as maritime lawyer, for a short time as foreign trade counsellor, and as independent solicitor. In 1968 he took the bar examination.

Since 1986 he has worked as professor of commercial and maritime law at the Faculty of Economics of the University of Split.

In 1979 he was appointed arbiter in Chambre Arbitrale Maritima in Monaco. He is a court interpreter for German and English.

Member of the Croatian Association for Maritime Law and the Croatian Philosophical Society. One of the founders of the Croatian Academic Society, established in Split in 1993, and its first chairman.

He has participated in scientific conferences at home and abroad. In Croatia and abroad he has published about 70 works dealing with maritime law and with philosophy of law (specialty: border area between law and moral philosophy), and the analysis of Marxist theory.

Since June 1 1997 he has been County prefect of the Split and Dalmatia County.

TECHNOLOGY AND BUSINESS FROM 2003 TO 2010: FROM BRAIN DRAIN TO BRAIN POOL

Branko Souček, IRIS, ITALY

Biography: Branko Souček, Proffesor of Universitets of Zagreb, New York and Arizona. Researcher and consultant for the United Nation Agencies UNIDO, IAEA, NASA, IBM, Siemens, Schering, Brookhaven National Laboratory and QDI. Prof. Souček has published 10 books Wiley, New York. His books have been translated into the Croatian, Russian and Japanese languages.

TIME OF CHANGE, TIME OF CHALLENGE

Zoran Milić

Biography: Zoran Milić obtained his B.Sc. Degree from FESB (*Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture*) in Split, specialization electronics. Since the beginning, he has been dealing with the telecommunications and informatics, as well as with the applied cybernetics in the organization and management of the complex systems and processes. He has been participating in the work and/or has been managing a number of national and international professional and expert associations or entities. He has initiated and managed the whole range of projects in the area of informatics, telecommunications, cybernetics and management, particularly the application of the system attitude in the domain of social management. He is the initiator and head of the important projects on the regional and national level. Besides other activities, in 1987 he initiated the Software Fair in Split (to develop into SOFTCOM further on). He has been the Manager of the Center (previously Institute) for informatics and telecommunications Ltd. in Split (1979) and WTC SPLIT Ltd. (1989) since their establishment.

SESSION ON BUSINESS AND SOCIAL ASPECTS OF *ICT*

VENICE, Wednesday, October 9, 09:00-12:30, (MLJET)

Chair: Branimir Burmaz, Croatian Telekom, Croatia

Strategic direction of Partner Relationship Management in IT industry
Hyun Cheol, Kim, Electronics and Telecommunications Research Institute, Korea

The Next Step: Three Countries Lead the Way
Gregory Hoelscher, Global Communications Strategies, USA

Romanian telecommunications – three months before liberalization
Nicolae Oaca, Romania

Law in Telecommunications
Anamarija Buzolić

SESSION ON INTELIGENCE IN TELECOMMUNICATIONS AND MANAGEMENT

VENICE, Friday, October 11, 09:00-10:30, (MLJET)

Chair: Branimir Burmaz, Croatian Telekom, Croatia

Intelligence in Telecommunications And Management
Stevan Dedijer

The Brain for Managment and Business
Branko Souček, IRIS, Italy

Evolution Inteligence
D. Roglić,

WORKSHOP ON INTELLIGENT TRANSPORTATION SYSTEMS Part 1

SPLIT, Tuesday, October 8, 09:00-11:00, (MLJET)

Chair: Mirslav Jelaska, Consultant IAP Ljubljana, Slovenia

Forecast of Communications for the Network of Highwys by using ITS Applications
Mirslav Jelaska, Consultant IAP Ljubljana, Slovenija

National Archicecture of ITS
Ivan Bošnjak, Hrvoje Gold, University of Zagreb, Croatia

The Perspectives of ITS in Lowering of the Risc at the Road and Railroad Crossing
Andrej Godec, Director of Slovenian Railway, Miroslav Jelaska,, Slovenija

Reengineering of Business Processes and Adaptation of IT Capabilities
Zvonimir Stanić, Director of Croatian Railway Informatics, Croatia

WORKSHOP ON INTELLIGENT TRANSPORTATION SYSTEMS Part 2

VENICE, Wednesday, October 9, 09:00-10:30, (ADRIATIC)

Introduction of Information Technology in the Basic Operation of the Airport split for Control and Management of Operating Processes
Slavko Roguljić, Airport Split-Kaštela, Croatia

ICT Infrastructure
Hristo Sikovičev, Director of Plans and Investments, Croatia

The Concept of Modernisation and Management of Traffic at the Railway Line Oštarije – Knin – Split
Zlatko Dokaza, Executive Director of Electric Sector, Croatia

EXHIBITIONS AND PRESENTATIONS

SoftCOM 2002, October 8-11, 2002
Split, Dubrovnik (Croatia)
Venice, Ancona (Italy)

SPLIT, Tuesday, October 8, 10:30-11:00, (VIS)

Mobile Internet: Business Necessity or Toys for Boys
Antonio Priscan, Bussines Internet Solution Manager, VIPnet, Croatia

SPLIT, Tuesday, October 8, 15:15-16:45, (ADRIATIC)

HT PRESENTATION – Fast Internet Acces

HT-DSL
Ida Srdić, Martina Rotshild, Anica Juretić, Croatian Telecom, Croatia

HT – CROnet: "My portal"

HT – CROnet:"Mobile Office"

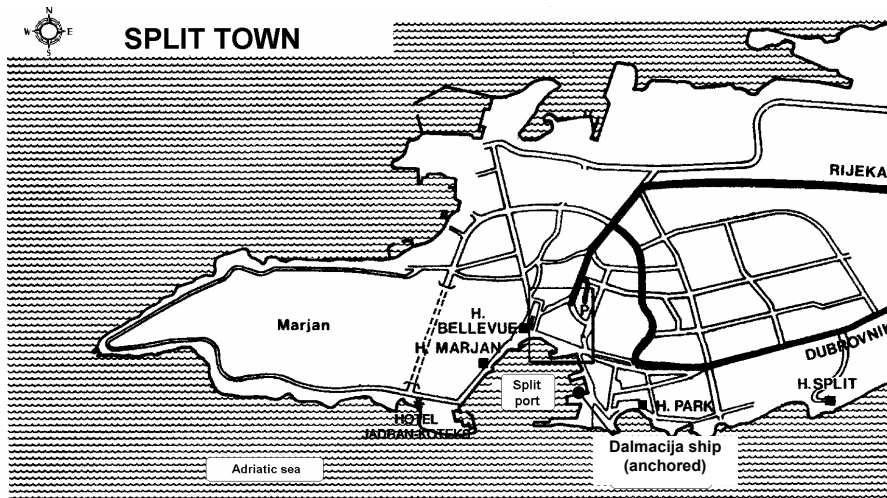**SPLIT, Wednesday, October 9, 10:00-11:00, 16:00-17.00**

ERICSSON NT: BT & WLAN based services

SoftCOM 2002 CITIES MEETINGS

SoftCOM 2002, October 8-11, 2002
Split, Dubrovnik (Croatia)
Venice, Ancona (Italy)

Being held aboard the cruising ship the SoftCOM'02 manifestations bring together the coasts of the Adriatic sea. The cruising ship "Dalmacija" during the jubilee SoftCOM journey will visit the most attractive cities along the Croatian and Italian Adriatic coastline: Split, Venice, Ancona, Dubrovnik thus providing the unique opportunity for meetings of the representatives of these cities. In each town the protocolar meetings of official county, city, university and business representatives will be organised. Besides that the public presentations will be held aboard the ship followed by together parties and buffets.

SPLIT TOWN

LOCATION

SoftCOM 2002 and all related events (Tutorials, Workshops, Business Forum, Exhibitions) will be held aboard the cruising ship "Dalmacija". The ship will stay for one day in Split (October 8), in Venice (October 9), in Ancona (October 10), and in Dubrovnik (October 11). The ship will sail between the above-mentioned cities overnight. Return to Split is scheduled for October 12 in the morning.

The ship "Dalmacija" will be available for accommodation in Split from October 7 in the early afternoon.

HOW TO GET TO SPLIT

by air: Split can be reached directly or via Zagreb from all world airports. Split airport is only 20 minutes by bus.

by ship: Split harbor is daily connected with Rijeka (Croatia) and Ancona (Italy).

WEATHER

In October the weather in Split is very nice, with an average temperature of about 20 degrees Celsius and the sea temperature is agreeable for swimming.

LANGUAGE

The Conference language is English.

PROCEEDINGS

All participants will receive the Final Program and Proceedings when registering at the conference desk.

REGISTRATION AND RECEPTION

Each day of the Conference from 08:00 till 16:00

SECRETARY

Hrvoje Dujmić
FESB Split
University of Split
R.Boškovića b.b.
Fax: +385 21 463 877
E-mail: softcom@fesb.hr

21000 Split, Croatia
Tel: +385 21 305 805

h t t p : / / w w w . f e s b . h r / S o f C O M