

ITI 2003 Conference at-a-Glance

MORNING, 9:00-13:30

ITI 2003 Conference at-a-Glance

AFTERNOON, 15:00-19:30

		A ORLANDO	B BOBARA	C PANORAMA	D ŠIPUN			A ORLANDO	B BOBARA	C PANORAMA	D ŠIPUN
Monday, June 16	1A. OPENING & WELCOME					L	L	4A. Invited: I. Bratko			
	2A. Invited: M.A. Vouk R.D. De Veaux					U	U	RECRE-Net Presentation			
	3A. Panel 1: Information Society in Croatia				Posters	N	N	5A. Intelligent & Multi-agent Systems	5B. Information Society	5C. Knowledge Management & E-Commerce	5D. Workshop: I. Olkin
						C	C	6A. Intelligent & Multi-agent Systems	6B. Information Society	6C. Knowledge Management & E-Commerce	6D. Workshop: I. Olkin
COCKTAIL, 21:00 - 22:00 (light dinner included)											
Tuesday, June 17	7A. Invited: I. Olkin					L	L	10A. Computer at the University	10B. Modeling & Optimization	10C. Biostat: School of Biometrics N. Flournoy	10D. Poster Session
	8A. Workshop: I. Crnković	8B. Computing in Business & Finance			Posters	U	U	11A. Computer at the University	11B. Modeling & Optimization	11C. Biostat: School of Biometrics N. Flournoy	11D. Poster Session
	9A. Panel 2: ICT in Higher Education				Posters	N	N	IPC Meeting 21:00 - 22:00			
Wednesday, June 18	12A. Invited: I. Crnković					C	C				
	13A. Theory of Computing and Comp.Method.	13B. Workshop R.D. De Veaux	School Teachers Meeting 10:00 - 12:00		Posters	H	H	15A. Theory of Computing and Comp. Method.	15B. Simulation		Posters
	14A.Theory of Computing and Comp.Method.	14B. Workshop R.D. De Veaux			Posters	U	U	EXCURSION, 17:00 - 23:30 (dinner included)			
Thursday, June 19	16A. Invited: D.D. Gajški					C	C				
	17A. Network. Middleware & Dist.Platforms	17B. Distance Education & Internet Collaboration	17C. Data Mining, Statistics & Biometrics		Posters	L	L	19A. Human Interfaces & Interaction		19C. Biostat: Consumers & Providers of DA	
	18A. Network. Middleware & Dist.Platforms	18B. Distance Education & Internet Collaboration	18C. Data Mining, Statistics & Biometrics		Posters	U	U	20A. CLOSING			
					N	N					
					C	C					
					H	H					

Monday, June 16

Tuesday, June 17

Wednesday, June 18

Thursday, June 19

CONTRIBUTED SESSION TOPICS

Special Session: Computer at the University
 Computing in Business and Finance
 Databases, Data Warehousing, and Information Systems
 Data Mining, Statistics and Biometrics
 Distance Education and Internet Collaboration
 Human Interfaces and Interaction
 Information Society
 Intelligent and Multi-Agent Systems
 Knowledge Management and E-Commerce
 Modeling and Optimization
 Networking, Middleware, and Distributed Platforms
 Simulation
 Theory of Computing, and Computing Methodologies

INVITED LECTURE SESSIONS (in alphabetical order)

Ivan Bratko: "Qualitative Data Mining and Its Applications"
Ivica Crnković: "Component-Based Software Engineering - New Challenges in Software Development"
Richard D. De Veaux: "Data Mining: Where Do We Start?"
Daniel D. Gajski: "System Design Based on C/C++: What Is Needed and What Is Not"
Ingram Olkin: "Measures of Discrepancy Between Treatment and Control"
MLaden A. Vouk: "Integration of Heterogeneous Scientific Data Using Workflows - A Case Study in Bioinformatics"

PANELS (all participants are invited)

P1. "Fostering an Information Society in Croatia"
Moderator: Diana Šimić
 P2. "Information and Communication Technology in Higher Education"
Moderator: Leo Budin

WORKSHOPS (in alphabetical order)

(no additional charge)
Ivica Crnković: "Teaching Theory of Science to Computer Science Students"
Richard D. De Veaux: "Data Mining: An Overview"
Ingram Olkin: "Probability Models for Life Time Data"

10th MEETING OF BIOMETRICIANS

BIOSTAT Topics

Problems in Bio-information Analysis
 Data Visualization
 Space Reduction Methods
 Prediction and Classification
 Time and Space Modeling
 Computationally Intensive Methods
 Other

Chair

Diana Šimić

ITI Topic *Data Mining, Statistic and Biometrics*

Thursday, June 19, 9:50

8th SCHOOL OF BIOMETRICS, Tuesday, June 17, 15:00

Invited Lecturer

Nancy Flournoy, University of Missouri-Columbia, USA

Adaptive Designs

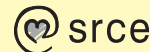
Adaptive designs are designs in which probabilities of treatment assignment change over the course of the experiment and/or the stopping time is random. Adaptive designs with binary response will be the topic of this school. Examples from toxicology testing studies and clinical trials will be provided. However, these designs are applicable in other areas such as educational assessment and self-paced learning, material strength tests, psychological stress tests, and many more.

BIOSTAT Panel Discussion, Thursday, June 19, 15:00

P3. "Consumers and Providers of Data Analysis - Coherent and Intelligent Relationship"
Moderator: Silvije Vuletić, University of Zagreb, Croatia

CO-ORGANIZERS

University
 Computing
 Centre



Croatian
 Biometric
 Society

ITI 2003 Conference Social Events

COCKTAIL, Monday, June 16, 21:00

COCKTAIL

All the participants are kindly invited to the cocktail event to take place on the Lido Bar terrace of the Croatia hotel on June 16 at 21:00 hours. Light dinner and drinks will be provided.

EXCURSION, Wednesday, June 18, 17:00

EXCURSION

For your relaxation we have organized an excursion to the gentle valley of Konavle, where the gala dinner will be served at the famous local restaurant Konavoski Dvori. On our way to Konavle we'll take a tour of the Dubrovnik Hydroelectric Power Plant, located near the town of Plat, some 6 km south of Cavtat. (Dress informally)

The Dubrovnik Hydroelectric Power Plant

is a high-pressure diversion plant, which harnesses the underground Trebišnjica River water from a reservoir, impounded by the dam, and discharges the harnessed water into the open sea. The tour will take us through the underground powerhouse and tailrace tunnel built inside the land of two countries: Croatia and Bosnia and Herzegovina.

Konavoski Dvori Restaurant

is located inside an ancient mill, surrounded by the lush greenery of old woods on the bank of a clean stream, where time seems to have stopped. All dishes are prepared in the same traditional way as our grandmothers used to make them. After a welcome brandy, you may enjoy the excellent ham, smoked cheese kept in oil, young lamb and veal baked under an iron bell, home-baked bread and other specialties of this renowned restaurant. Live music, a selection of local wines, beers, and soft drinks and a "surprise cake" will hopefully make it a memorable evening ... "of the Mediterranean as it once was".

Important Notes:

The excursion bus departs at 17:00 hours on Wednesday from Croatia hotel, and will return to the hotel at around midnight.

To board the excursion bus each participant must have their **Excursion ticket** (provided with the Conference materials) in hand.

Additional Excursion tickets are available for sale at the Conference desk.

LUNCHES, June 16-19, 13:30-14:30

LUNCHES

Light lunch is included in the conference fee. Your Conference pack contains four lunch tickets that are the official passes to the lunch room. Please note that lunch tickets are color coded and valid only for the day indicated on the ticket.

Additional Lunch tickets are available for sale at the Conference desk.

COFFEE BREAKS, June 16-19, 11:30-12:00, 17:00-17:30

COFFEE BREAKS

Refreshments will be served during coffee breaks (morning and afternoon), usually on the Salon Orlando terrace.

ITI 2003 Information for Participants

Information for PRESENTERS

Presentation time

invited papers: 45 minutes, including discussion

contributed papers: 20 minutes, including discussion

posters: 2 days on display + 10 minutes optional presentation without discussion (as desired) within designated Poster Sessions. Discussions (optional) are delayed to the end of the session.

Equipment

The participants who wish to use an LCD and PC (Win XP, MS Office 2000), or a slide projector during their presentations must check in with the Conference desk **one day in advance**, as well as **30 minutes before** the session for which their presentation is scheduled..

CONFERENCE DESK / REGISTRATION

REGISTRATION starts on Sunday, June 15 at 19:00

Conference desk working hours:

Sunday, June 15	19:00 - 21:00
Monday, June 16	08:00 - 19:50
Tuesday, June 17	08:00 - 13:30, 14:45 - 19:30
Wednesday, June 18	08:30 - 13:30, 14:45 - 16:00
Thursday, June 19	08:30 - 13:40, 15:00 - 17:00

Entrance to the Convention

Each participant will receive a name tag on registration. The tag is the official pass for entry to all Conference events.

LANGUAGE

The official language of the ITI Conference is English.

MESSAGES

Please check the Conference bulletin board from time to time for possible changes to the program and for other announcements.

INTERNET ACCESS

Internet Cafe

is located next to the Conference desk, and will be open during the Conference desk hours.

Wireless Access is also provided to the participants and covers the main hall "Orlando", the entrance-hall and Conference desk.

Network parameters:

IEEE 802.11 2.4GHz, no encryption, no authentication, DHCP, SSID:

Sorry, wireless PCMCIA cards will not be available for rent.

Information for PARTICIPANTS

ORLANDO**BOBARA****PANORAMA****ŠIPUN**

Monday, June 16, 09:00-9:50

Monday, June 16, 09:00-9:50

Session 1A

OPENING & WELCOME

Monday, June 16, 09:50-10:00

Monday, June 16, 09:50-10:00

WELCOME DRINK
(sponsored by Croatia Hotel)

Monday, June 16, 10:00-11:30

Monday, June 16, 10:00-11:30

Session 2A
Chair: L. Budin**INVITED LECTURES**Vouk, M. A.
**Integration of Heterogeneous
Scientific Data using Workflows -
A Case Study in Bioinformatics**De Veaux, R. D.
**Data Mining:
Where Do We Start?**

Monday, June 16, 11:30-12:00

Monday, June 16, 11:30-12:00

COFFEE BREAK
SALON ORLANDO - TERRACE**COFFEE BREAK**
SALON ORLANDO - TERRACE

Monday, June 16, 12:00-13:30

Monday, June 16, 12:00-13:30

Session 3A

PANEL 1Moderator: D. Šimić
**FOSTERING INFORMATION
SOCIETY IN CROATIA****POSTERS**

Monday, June 16, 13:30-14:30

Monday, June 16, 13:30-14:30

CONFERENCE LUNCH
RESTAURANT KONAVLE (Croatia Hotel)**CONFERENCE LUNCH**
RESTAURANT KONAVLE (Croatia Hotel)

Monday, June 16, 09:00 - 14:30

Monday, June 16, 09:00 - 14:30

ORLANDO**BOBARA****PANORAMA****ŠIPUN**

Monday, June 16, 15:00-15:45

Monday, June 16, 15:00-15:45

Session 4A
Chair: S. Ribarić

INVITED LECTURE

Bratko, I., Šuc, D.
**Qualitative Data Mining
and Its Applications**

Monday, June 16, 15:45-16:15

RECRO-Net Presentation

Monday, June 16, 16:20-17:00

Session 5A
Chair: S. Ribarić

**INTELLIGENT AND
MULTI-AGENT SYSTEMS**

Ribarić, S., Hrkać, T.
**Object-Oriented Simulator
of Multi-Agent System for
Temporally Rich Domains**

Rojanavas, P., Pinnern, O.
**Extended Rough Fuzzy Sets for
Web Search Agent**

Session 5B
Chair: D. Šimić

INFORMATION SOCIETY

Trkman, P., Turk, T.
**Liberalization and Regulation of
Information and Communication
Technologies in Europe**

Franić, Z.
**Some Aspects of Internet Metrics:
Case of Croatia**

Monday, June 16, 16:20-17:00

Session 5C
Chair: V. Hlupic

**KNOWLEDGE MANAGEMENT
AND E-COMMERCE**

Kuzic, J., McGrath, G. M.
**Drivers and Perils of
E-Commerce in the Australian
Wholesale and Retail Industry**

Musa, M., Gornik, V., Jerneić, B.
**Analysis of Croatian
Management in ICT Environment**

Session 5D

WORKSHOP

Lecturer: I. Olkin
**PROBABILITY MODELS
FOR LIFE TIME DATA**

Monday, June 16, 17:00-17:30

**COFFEE BREAK
SALON ORLANDO - TERRACE**

Monday, June 16, 17:00-17:30

**COFFEE BREAK
SALON ORLANDO - TERRACE**

Monday, June 16, 15:00 - 17:30

Monday, June 16, 15:00 - 17:30

Monday, June 16, 17:30-19:30

Monday, June 16, 17:30-19:50

Session 6A
Chair: S. Ribarić

Session 6B
Chair: D. Šimić

Session 6C
Chair: V. Hlupic

Session 6D

**INTELLIGENT AND
MULTI-AGENT SYSTEMS**

INFORMATION SOCIETY

**KNOWLEDGE MANAGEMENT
AND E-COMMERCE**

WORKSHOP

Anagnostopoulos, I.,
Anagnostopoulos, C., Psoroulas,
I., Loumos, V., Kayafas, E.
**Information Fusion Meta-Search
Interface for Precise Photo
Acquisition on The Web**

Radovan, M.
**The Information Society:
A Sketch for Portrait**

Hlupic, V., Qureshi, S.
**A Research Model for Collaborative
Value Creation from Intellectual
Capital**

Lecturer: I. Olkin
**PROBABILITY MODELS
FOR LIFE TIME DATA**

Luštrek, M., Gams, M.
**Intelligent System
for Playing Tarok**

Bojda, B., Nagy, B.
**Items of Technological Planning
and Education in Hungary**

Alwis, D., Hlupic, V., Fitzgerald, G.
**Intellectual Capital Factors
that Impact of Valuecreation**

Dennis, C., Marsland, D.,
Cockett, T., Hlupic, V.
**Market Segmentation and
Customer Knowledge for
Shopping Centers**

Corbalán, L., Lanzarini, L.
**An ENA-Based Strategy
Replacing Subobjectives
Definition in Incremental
Learning**

Candia, R., Ekenberg, L., Popov, O.
**ICT Education for Development
Based on the DSV Model**

Mraović, B.
**The Speed of Mind in the
Informational Society**

Fehér, P.
**Knowledge Termination:
The End of the Game?**

Kó, A., Vas, R.
**"Knowledge of Stealing" -
Challenges and Possibilities in
Knowledge Modeling**

Sokic, M., Matic, V., Bazant, A.
**Web Content Management System
Based on XML Native Database**

Strilechi, C., Vaida, M-F.
**Enhancing the Security of Web
Applications**

Monday, June 16, 21:00-22:00

Monday, June 16, 21:00-22:00

WELCOME COCTAIL (light dinner included)
LIDO BAR - TERRACE

WELCOME COCTAIL (light dinner included)
LIDO BAR - TERRACE

Monday, June 16, 17:30 - 19:30

Monday, June 16, 17:30 - 19:50

ORLANDO**BOBARA****PANORAMA****ŠIPUN**

Tuesday, June 17, 9:00-9:45

Session 7A

Chair: V. Lužar-Stiffler

INVITED LECTUREOlkin, I. - Measures of Discrepancy
Between Treatment and Control

Tuesday, June 17, 10:00-11:30

Session 8A**WORKSHOP**Lecturer: I. Crnković
**TEACHING THEORY OF
SCIENCE TO COMPUTER
SCIENCE STUDENTS****Session 8B**

Chair: I. Futo

**COMPUTING IN BUSINESS
AND FINANCE**Batoš, V., Fertalj, K., Kalpić, D.
**Application of E-Commerce
in Banking Industry**Antovski, Lj., Gusev, M.
M-PaymentsBaloh, P., Damij, T., Vrečar, P.
**Business Process Modeling
Using TAD Methodology**Strausz, G., Mészáros, T., Dobrowiecki, T.
**A Knowledge-based
Advisory System Model**

Tuesday, June 17, 11:30-12:00

COFFEE BREAK - SALON ORLANDO - TERRACE

Tuesday, June 17, 12:00-13:30

Session 8A**PANEL 2**Moderator: L. Budin
**INFORMATION AND COMMU-
NICATION TECHNOLOGY IN
HIGHER EDUCATION**

Tuesday, June 17, 13:30-14:30

**CONFERENCE LUNCH
RESTAURANT KONAVLE (Croatia Hotel)**

Tuesday, June 17, 9:00-9:45

Tuesday, June 17, 11:30-12:00

COFFEE BREAK - SALON ORLANDO - TERRACE

Tuesday, June 17, 12:00-13:30

Tuesday, June 17, 13:30-14:30

**CONFERENCE LUNCH
RESTAURANT KONAVLE (Croatia Hotel)****POSTERS****POSTERS**

Tuesday, June 17, 09:00 - 14:30

Tuesday, June 17, 09:00 - 14:30

ORLANDO

BOBARA

PANORAMA

ŠIPUN

Tuesday, June 17, 15:00-17:00

Tuesday, June 17, 15:00-17:00

Session 10A
Chair: R. Juric

Session 10B
Chair: Ž. Kurtanjek

Session 10C
Chair: D. Šimić

Session 10D
Chair: D. Mihajlov

COMPUTER AT THE UNIVERSITY

MODELING AND OPTIMIZATION

**10th BIOSTAT:
8th School of Biometrics**

POSTER SESSION

Bekić, Z.
The Changing Role of University Computing Centers: Toward Variety of Networking, Computing and Educational Services

Kurtanjek, Ž.
Stochastic Simulation of a Single Gene Cell Model

Flournoy, N.
ADAPTIVE DESIGNS

COMPUTER AT THE UNIVERSITY
Lemke, D., May, L., Olsen, D., Stachowicz, M. S.
Image Processing-Undergraduate Research on Three Posters

Thongpradistha, J., Chittayasothorn, S.
The ISO 9000 Quality Management System for a University Computer Center

Ratkov, Al., Georgiev, Tz., Ivanova, V., Kristeva, J., Ratkov, B.
Comparative Studies of Fed-Batch Fermentation Processes for Production of L-Lysine and L-Valine Based on Mathematical Models

DATABASES, DATA WAREHOUSING, AND INFORMATION SYSTEMS

Bačić, B.
Computer at the University: Opportunities for Tailoring Automated Marking and Digital Feedback

Knezović, J., Kovač, M.
Gradient Based Selective Weighting of Neighboring Pixels for Predictive Lossless Image Coding

Mrzenjak-Šego, Ij., Polić, Ž.
ER Models for Producing Reports

Šehanović, J., Tatković, N., Žugaj, M.
University without Paper

Zenzerović, Z., Bešlić, S.
Optimization of Cargo Transport with a View to Cost Efficient Operation of Container Ship

Protasov, Yu. S., Protasov, Yu. Yu., Telekh, V. D.
About the Creation of Automatic Electronic Knowledge Base "Electronics"

Mesarić, J.
Goals of Information Systems and Causes of Their Failures: Will Information System of High Education in the Republic of Croatia Succeed

Mitreski, K., Davcevc, D.
3-D Visualization and Analysis of the Pollution Sources in the Lake Ohrid

DATA MINING, STATISTICS AND BIOMETRICS

Baranović, M., Mackala, L., Kranjčec, D.
Migration to Multitier Application Architecture: A Case Study

Ollé, K., Erdóhelyi, B., Varga, E., Halmaj, C., Kuba, A.
MedEdit: A Computer Assisted Planning System for Orthopedic-Trauma Surgery

Bensberg, F., Kollakowski, M.
Data Quality Management for Web Log Mining

INTELLIGENT AND MULTI-AGENT SYSTEMS

Al-Anzi, F. S., Alazemi, H. M. K.
Automatic Diacritics of Arabic Texts via Probabilistic Models

Kraljevski, I., Nikolovski, G., Arsenovski, S.
Animal Voice Classification Using Time Encoded Signals and Artificial Neural Networks

DISTANCE EDUCATION AND INTERNET COLLABORATION

Tot, N., Jagnjić, Ž., Jović, F.
Quantization Influence on Digital Hologram Reconstruction
Arsenovski, S., Loskovska, S., Mihajlov, D., Jolevski, I.
Development of ADL System

Tuesday, June 17, 17:00-17:30

Tuesday, June 17, 17:00-17:30

**COFFEE BREAK
SALON ORLANDO - TERRACE**

**COFFEE BREAK
SALON ORLANDO - TERRACE**

Tuesday, June 17, 15:00 - 17:30

Tuesday, June 17, 15:00 - 17:30

Tuesday, June 17, 17:30-19:30

Tuesday, June 17, 17:30-19:30

Session 11A

Chair: M. Baranović

Session 11B

Chair: J.Skorin-Karpov

COMPUTER AT THE UNIVERSITY**MODELING AND OPTIMIZATION**

Juric, R., Lees, P., Ptohos, T.
Experiences of Revalidating the Undergraduate and Postgraduate Courses within the Information Systems Curricula at University of Westminster, UK

Orlić, M., Ćurin, T., Žagar, M.
Software Engineering Education in Developing Countries - Responding to the Outsourcing Challenges

Župan, R., Frangeš, S.
Application of OCAD in Cartographic Subjects at the Faculty of Geodesy

Skorin-Kapov, D., Skorin-Kapov, J.
On the Nucleolus of the Threshold Based Discounting Network (TBDN) Game

Borgulya, I.
An Evolutionary Framework for 3-SAT Problems

Zhai, D., Jin, F.
Solving Traveling Salesman Problem with Nested Queue-Jumping Algorithm

Sigl, B., Golub, M., Mornar, V.
Solving Timetable Scheduling Problem Using Genetic Algorithms

Danciu, D.
Evolutionary Timetabling Using Biased Genetic Operators

Legierski, W., Widawski, R.
System of Automated Timetabling

Session 11C

Chair: D. Šimić

Session 11D

Chair: R.Volner

**10th BIOSTAT:
8th School of Biometrics****POSTER SESSION**

Flournoy, N.
ADAPTIVE DESIGNS

HUMAN INTERFACES AND INTERACTION

Blake, A., Grundy, C.
Computational Parsing of Melody (Cpm): Interface Enhancing the Creative Process During the Production of Music

Naumov, N., Loskovska, S.
Designing Effective Web Page for Nutrition

Volner, R., Poušek, L.
Electronic Anatomical Illustrated Dictionary

COMPUTING IN BUSINESS AND FINANCE

Bensberg, F., Dewanto, B. L.
TCO VOFI for Elearning Platforms

Segetlija, Z., Lamza-Maronić, M.
Information Technologies and the Formation of Croatian Retail Chains

MODELING AND OPTIMIZATION

Bocharov, L. A., Sokolov, N. L., Udalov, V. A.
About Organization of Intellectual Designing System Process in Maintenance for Operative Solutions Acceptance at Control Vehicle Remote Sounding of the Earth.

Volner, R.
Markov Models CATV

NETWORKING, MIDDLEWARE AND DISTRIBUTED PLATFORMS

Volner, R.
ATM/IP CATV Network

Tuesday, June 17, 21:00-22:00

Tuesday, June 17, 21:00-22:00

Program Committee Meeting

Tuesday, June 17, 17:30 - 19:30

Tuesday, June 17, 17:30 - 19:30

ORLANDO**BOBARA****PANORAMA****ŠIPUN**

Wednesday, June 18, 09:00-9:45

Wednesday, June 18, 09:00-9:45

Session 12A
Chair: R. Manger**INVITED LECTURE**Crnković, I.,
**Component-Based Software
Engineering - New Challenges
in Software Development**

Wednesday, June 18, 09:50-11:30

Wednesday, June 18, 10:00-12:00

Session 13A
Chair: R. Manger**Session 13B****Session 13C****THEORY OF COMPUTING, AND
COMPUTING METHODOLOGIES****WORKSHOP****SCHOOL TEACHERS MEETING****POSTERS**Henriques, P. R., Kosar, T., Mernik,
M., Pereira, M. J. V., Žumer, V.Lecturer: R. D. De Veaux
**DATA MINING:
AN OVERVIEW****Grammatical Approach
to Problem Solving**Klajnšek, G., Csébfalvi, B.
**4D Volume Rendering by
Differential Splatting**Manger, R., Nogo, G.
**Solving Sparse Symmetric Path
Problems on a Network of
Computers**Nagy, B.
**Boolean Programming, Truth-
Teller—Liar Puzzles and Related
Graphs**Žnuderl, D., Črepinšek, M., Mernik,
M., Žumer, V.
**GPK: A Java Based Genetic
Programming Kernel**

Wednesday, June 18, 11:30-12:00

Wednesday, June 18, 11:30-12:00

**COFFEE BREAK
SALON ORLANDO - TERRACE****COFFEE BREAK
SALON ORLANDO - TERRACE**

Wednesday, June 18, 09:00 - 12:00

Wednesday, June 18, 09:00 - 12:00

Wednesday, June 18, 12:00-13:20

Wednesday, June 18, 12:00-13:20

Session 14A
Chair: D. Skorin-Kapov

Session 14B

**THEORY OF COMPUTING, AND
COMPUTING METHODOLOGIES**

WORKSHOP

Bocu, D.
**About the Abstraction of a
Software System's Solution**

Lecturer: R. D. De Veaux
**DATA MINING:
AN OVERVIEW**

Helman, T., Fertalj, K.
**A Critique of Web Application
Generators**

Požgaj, Ž., Sertić, H., Boban, M.
**Effective Requirement
Specification as a Precondition
for Successful Software
Development Project**

Trojani, M., Polzonetti, A.
**USDP Application: Cutting out
a Sustainable Process for the
Public Local Administration**

POSTERS

Wednesday, June 18, 13:30-14:30

Wednesday, June 18, 13:30-14:30

**CONFERENCE LUNCH
RESTAURANT KONAVLE (Croatia Hotel)**

**CONFERENCE LUNCH
RESTAURANT KONAVLE (Croatia Hotel)**

Wednesday, June 18, 12:00 - 14:30

Wednesday, June 18, 12:00 - 14:30

Wednesday, June 18, 15:00-16:00

Wednesday, June 18, 15:00-16:00

Wednesday, June 18, 15:00 - 16:00

Wednesday, June 18, 15:00 - 16:00

Session 15A
Chair: R. Manger

Session 15B
Chair: V. Bosilj Vukšić

**THEORY OF COMPUTING, AND
COMPUTING METHODOLOGIES**

SIMULATION

Cheng, X., Ouyang,
D., Zhang, C.
**A General Model-Based
Diagnosis**

Ivandić Vidović, D.,
Bosilj Vukšić, V.
**Dynamic Business Process
Modelling Using ARIS**

Cheng, X., Ouyang, D.,
Zhang, C.
**A Logic Framework with
Algebraic Extension**

Groznik, A., Kovarić,
A., Jaklič, J.
**Simulation Modeling in Practice -
Towards E-Government**

Marasović, K.
**Visualised Interactive Computer
Simulation of Ski-Jumping**

POSTERS

Wednesday, June 18, 17:00-23:30

Wednesday, June 18, 17:00-23:30

**EXCURSION
POWER PLANT AND
GALA DINNER AT KONAVOSKI DVORI**

**EXCURSION
POWER PLANT AND
GALA DINNER AT KONAVOSKI DVORI**

Please see page 6 for details.

Please see page 6 for details.

EXCURSION

EXCURSION

Thursday, June 19, 9:00-9:45

Session 16A

Chair: L. Budin

INVITED LECTURE

Gajski, D.,
**System Design Based on C/C++:
 What Is Needed and What Is Not**

Thursday, June 19, 9:50-11:30

Session 17A

Chair: E. Di Sciascio

**NETWORKING, MIDDLEWARE
AND DISTRIBUTED PLATFORMS**

Colucci, S., Di Noia, T., Di Sciascio,
 E., Donini, F. M., Mongiello, M.
**Description Logics Approach to
 Semantic Matching of Web Services**

Crkvenac, B.
**Mobile Operator's IT Middleware
 Infrastructure**

Milašinović, B., Fertalj, K.
**An E-mail Connectivity Solution for
 WAP-enabled Mobile Phone**

Polzonetti, A., Tossici, A., Vallorani, A.
**Microsoft Open System Logon
 with Opensource PKI**

Dragomiroiu, M., Ventuneac, M.,
 Salomie, I., Coffey, T.

**Application Framework
 Development for Virtual Learning
 Environments**

Session 17B

Chair: B. Saunders

**DISTANCE EDUCATION AND
INTERNET COLLABORATION**

Saunders, B.
**Delivering an Undergraduate
 Course to a Cross-cultural Market
 Using the World Wide Web.**

Zdravkova, K., Bothe, K., Budimac, Z.
**SETT-Net: A Network for Software
 Engineering Training and Teaching**

Crnkovic, I., Čavrak, I., Fredriksson,
 J., Land, R., Žagar, M., Akerholm, M.
**On the Teaching of Distributed
 Software Development**

Pickard, P., Chalk, P., Jones, R.
**Creating and Employing ON-LINE
 Dynamic Learning Objects for an
 Introductory Programming Module.**

Mornar, V., Hoić-Božić, N., Pukljak
 Zokovic, D.
**The Model for Testing in Adaptive
 Hypermedia Courseware**

Thursday, June 19, 11:30-12:00

**COFFEE BREAK
 SALON ORLANDO - TERRACE**

Thursday, June 19, 9:00-9:45

Session 17C

Chair: J. Kern

**DATA MINING, STATISTICS
AND BIOMETRICS**

O'Quigley, J., Stare, J.
**Cumulative Empirical Processes
 for Survival Models**

Ivancevic, V., Kaine, A. K., McLindin,
 B. A., Sunde, J.

**Factor Analysis of Essential
 Facial Features**

Košmelj, K., Vadnal, K.
**Comparison of Two Generalized
 Logistic Regression Models;
 a Case Study**

Perić, S., Jazbec, A., Gračan, J.
**Grouping of Pedunculate Oak
 Provenances on the Basis of
 Biomass by Applying Cluster
 Analysis**

Kjellström, O., Bälter, O.
**Design of Follow-up Questions
 in Web Surveys**

Thursday, June 19, 9:50-11:30

Session 17D

Chair: B. Jukić

**DATABASES, DATA WAREHOUSING,
AND INFORMATION SYSTEMS**

Bensberg, F.
**Controlling the Data Warehouse
 - a Balanced Scorecard Approach**

Baranović, M., Madunić, M.,
 Mekterović, I.

**Data Warehouse as a Part of the
 Higher Education Information
 System in Croatia**

Pranjić, M., Jukić, N., Fertalj, K.
**Implementing Belief-Consistent
 Multilevel Secure Relational Data
 Model: Issues and Solutions**

Pavlič, M., Kaić, A., Dobrović, Ž.,
 Čandrlić, S., Ostojčić, J.
**Design Phase of Information
 Systems Integration Process**

Greiner, S., Rebernak, D., Bošković,
 B., Brest, J., Žumer, V.
**Web Information System Based on
 Open Source Technologies**

Thursday, June 19, 11:30-12:00

**COFFEE BREAK
 SALON ORLANDO - TERRACE**

Thursday, June 19, 12:00-13:40

Session 18A
Chair: E. Di Sciascio

**NETWORKING, MIDDLEWARE
AND DISTRIBUTED PLATFORMS**

Martinović, G., Budin, L.,
Hocenski, Ž.
**Predictive Mapping Framework in
Heterogeneous Computing
Environment**

Marić, I., Klobučar, M.
**Croatian Internet eXchange
- The Principles**

Krile, S.
**Path-Level Congestion Avoidance
Mechanisms in End-To-End QoS-
Routing**

Grieco, L. A., Mascolo, S.
End-to-End Bandwidth Estimation
**Algorithms for Westwood
TCP Congestion Control**

Session 18B
Chair: K. Zdravkova

**DISTANCE EDUCATION AND
INTERNET COLLABORATION**

Priščan, S., Horvat, D., Hoić-Božić,
N., Pervan, P., Vlahović-Štetić, V.
**Results of the CARNet programme
"Educational Projects"**

Bogunović, H., Pek, E., Lončarić,
S., Mornar, V.
**An Electronic Journal
Management System**

Glaserhardt, S., Cicin-Sain, M.,
Capko, Z.
**Tele-Immersion as a Positive
Alternative of the Future**

Žiha, K., Stanković, T., Pavković,
N., Skala, K.
**Handling Engineering
Design Experience**

Matei, I., Popescu, D., Lupu, C.,
Luican, I.
**Level Control System - Virtual
Experiment**

Thursday, June 19, 13:30-14:30

**CONFERENCE LUNCH
RESTAURANT KONAVLE (Croatia Hotel)**

Thursday, June 19, 9:00-9:45

Session 18C
Chair: V. Lužar-Stiffler

**DATA MINING, STATISTICS
AND BIOMETRICS**

Coli, M., Fontanella, L., Ippoliti, L.
Order Selection of Spatial and
Temporal Autoregressive Models
with Errors in Variables

Gibert, K., Annicchiarico, R.,
Rodas, J., Cortés, U., Nocentini,
U., Caltagirone, C.
**Knowledge Discovery on
Functional Disabilities Using
Clustering Based on Rules on
WHO-DAS II**

Pejić Bach, M.
**Data Mining Applications
in Public Organizations**

Janas, J. M.
**An Enhanced A Priori Algorithm
for Mining Multidimensional
Association Rules**

Tudman, M., Mikelić, N., Boras, D.
**Vocabulary Size Prediction
of Croatian Texts**

Session 18D
Chair: B. Jukić

**DATABASES, DATA WAREHOUSING,
AND INFORMATION SYSTEMS**

Varga, M.
**Zachman Framework in Teaching
Information Systems**

Ristov, S., Lauc, D.
**A System for Compacting
Phonebook Database**

Vladarean, C-M.
**About Aggregation of Imprecise
Evidence in Database**

Thursday, June 19, 13:30-14:30

**CONFERENCE LUNCH
RESTAURANT KONAVLE (Croatia Hotel)**

Thursday, June 19, 15:00-16:40

Thursday, June 19, 15:00-16:40

Session 19A
(Chair: E. Di Sciascio)

**HUMAN INTERFACES
AND INTERACTION**

Juric, R., Kim, I., Kuljis, J.
**Cross Cultural Web Design: An
Experiences of Developing UK
and Korean Cultural Markers**

Gould, E., Verenikina, I.
**An Activity Theory Framework for
Computer Interface Design**

Požgaj, Ž.
**Information Collected in the
Biometric Identification Process
Should Be Used in Enterprise
Resource Planning**

Kaine, A. K.
**The Impact of Facial Recognition
Systems on Business Practices
within an Operational Setting**

Martinčić-Ipsić, S., Ipsić, I.
**VEPRAD: A Croatian Speech
Database of Weather Forecasts**

Session 19C

Biostat PANEL

Moderator: S. Vuletić
**CONSUMERS AND
PROVIDERS OF DATA
ANALYSIS - COHERENT AND
INTELLIGENT RELATIONSHIP**

BIOSTAT CLOSING

Thursday, June 19, 16:45-17:00

Thursday, June 19, 16:45-17:00

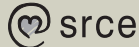
Session 20A
CLOSING

Thursday, June 19, 15:00 - 17:00

Thursday, June 19, 15:00 - 17:00

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ITI 2003 Conference Venue / Transportation

CROATIA HOTEL, Cavtat

The Conference takes place at the luxurious five star hotel "Croatia" in Cavtat, only 10 minutes (6 km) from Dubrovnik International Airport. The hotel, located on a peninsula surrounded by the crystal clear Adriatic Sea offers a picturesque view of the city of Dubrovnik.

Croatia Hotel

Frankopanska 10

20210 Cavtat

Croatia

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Fax: +385/(0)20/478-213, 478-770

e-mail: info@hoteli-croatia.hr

URL: <http://www.hoteli-croatia.hr>

AIRPORT TRANSFER

Transfer from Croatia hotel to the airport will be organized upon request on Thursday, June 19, evening and Friday, June 20, morning. Please fill out your "Airporter" Transfer Form and submit it to the Conference desk at least one day before departure.

LOCAL TRANSPORTATION

Bus, boat, taxi, and rent-a-car services are available. For details check at the hotel desk. Note: Boats for Dubrovnik depart every half hour (wear sunscreen).

USEFUL LOCAL INFORMATION

Exchange rates:

The Croatian currency unit is the Croatian Kuna (kn).

1 EUR= 7.57 kn, 1 USD = 6.44 kn

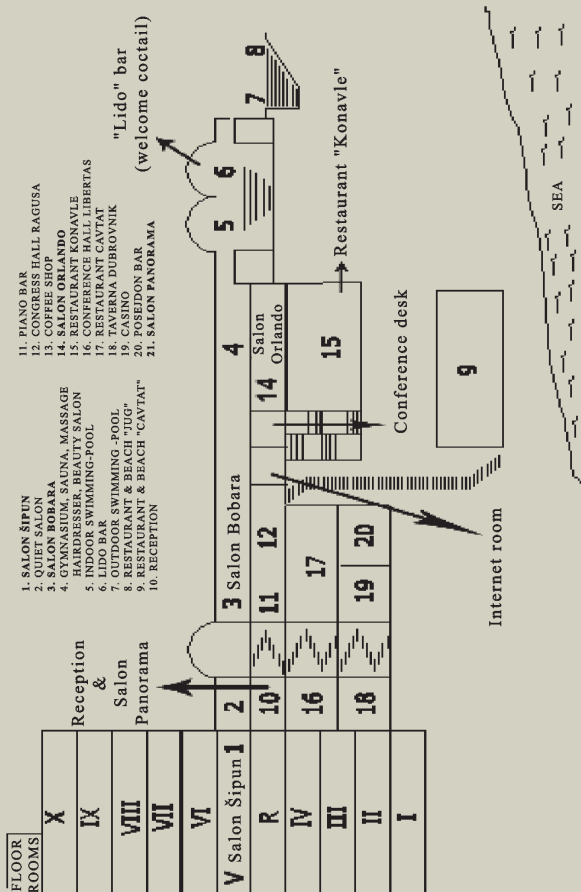
(selling rate as per June 4, 2003, source: <http://www.hnb.hr>)

Local prices: a cup of coffee at local coffee shops: 6-8 kn, pizza: 25-35 kn, bus ticket (within city): 10 kn.

Weather: air temperature 25-30°C, sea temperature: 21-23°C

ITI 2003 Conference Venue / Facilities Map

CROATIA HOTEL, Cavtat



Ministry of Science and Technology, Republic of Croatia



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RECRO_{net}

Trg sportova 11, Zagreb

All participants are kindly invited to the RECRO-Net Presentation to take place at Salon "Orlando" on Monday, June 16, 15:45 - 16:15 hours.

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Maksimirska 120, Zagreb

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University Computing Centre - SRCE, the organizer of past twenty-five Conferences, takes the opportunity to express its sincere appreciation to the many people who supported this Conference in a number of ways. A look at the Conference materials brings to memory Ivan Čerić who designed the ITI logo in 1993, still a student at the time. Special thanks go to distinguished professors and colleagues from Croatian and foreign Universities and Institutes, who put their enthusiasm, expertise and efforts in maintaining the quality and international character of the Conference throughout both good and turbulent years for Croatia.

We are especially grateful to former Chairs of the Conference Program and Organizing Committees':

Computer at the University 1974-1990 (in chronological order)

Stanko Turk, University Computing Centre and Faculty of Electrical Engineering and Computing, Zagreb, Conference founder and the 1st Chairman

Boris Aurer, University Computing Centre, Scientific Secretary of the 1st Conference

Božidar Stefanini, University Computing Centre and Faculty of Electrical Engineering and Computing, Zagreb

Konstantin Momirović, University Computing Centre and Faculty of Kinesiology, Zagreb

Boris Aurer, University Computing Centre

Information Technology Interfaces 1991-2003 (in alphabetical order)

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'Note: Each person is shown with their affiliation as it was at that time.

We want to thank all cooperating institutions, sponsors, Conference Vice-chairs, Program Committee members and reviewers for their support, and we wish all the participants successful and memorable stay in Cavtat.

June 2003

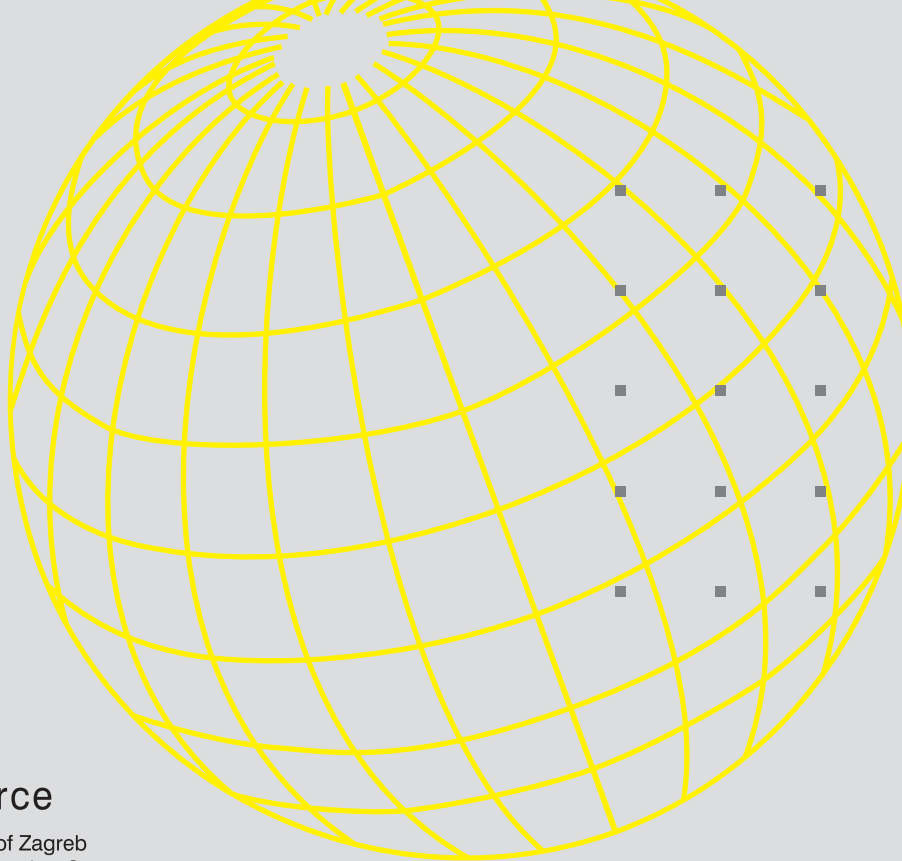
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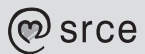
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Program of the 25th
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**INFORMATION
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Cavtat, Croatia, June 16-19, 2003