

34th International Conference on
INFORMATION TECHNOLOGY INTERFACES

IT! 2012

Conference Program

Organized by

University Computing Centre
University of Zagreb



June 25-28, 2012
Cavtat / Dubrovnik, Croatia

ITI 2012 Information for Participants and Presenters

CONFERENCE DESK / REGISTRATION

REGISTRATION starts on Sunday, June 24 at 19:00

CONFERENCE DESK WORKING HOURS:

Sunday,	June 24	19:00-21:00
Monday,	June 25	08:00-19:00
Tuesday,	June 26	08:00-20:00
Wednesday,	June 27	08:00-14:00
Thursday,	June 28	08:30-16:00

ENTRANCE TO THE CONFERENCE EVENTS

Each participant will receive an accreditation tag at registration.

The tag is the official pass for entry to all Conference events.

INTERNET and WIRELESS ACCESS

INTERNET ROOM

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

WIRELESS ACCESS

Wireless access is free of charge and provided by Hotel Croatia.



EDUROAM ACCESS

EDUROAM access, provided by SRCE, is also available to the Conference participants (SSID: eduroam), and covers Orlando Hall, Conference Desk and a section of the main entrance-hall. More information on EDUROAM is available at: www.eduroam.hr and www.eduroam.org

PRESENTATION EQUIPMENT

- PC (Microsoft Windows XP and MS Office 2007)
- projector

You should present your paper by using our equipment. Please bring your presentation on a USB memory key or on a CD media.

PRESENTATION TIME

Keynote presentations: 60 minutes, including discussion.

Contributed paper presentations: 15 minutes, including discussion.

Posters: 4 days on display. At their option (and at the time scheduled) poster authors are given the opportunity to briefly present their work or just be available for questions / discussion.

STUDENT PAPER COMPETITION

The lead student author must present the paper during their designated Student Paper Competition Session at the Conference. The paper will be judged, along with others in the sessions, based on written technical content (70%) and on presentation effectiveness (30%). The Competition Judges will select one Outstanding Student Paper. A special certificate and a prize (to be announced) will be awarded to the Lead Student Author of the winning paper.

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.

IT 2012 Conference at-a-Glance

	TIME	A ORLANDO	B BOBARA	C SALON 5	
Monday, June 25	09:15-10:00	1A.  2012 OPENING and WELCOME			Monday, June 25
	10:00-11:00	2A. Keynote Lecture: J. S. Valacich			
	11:30-12:30	3A. Keynote Lecture: G. J. Hidding			
	12:45-13:30	4A. Business Intelligence	4B. Information Technology in Business and Government	4C. G. Nezelek: Presentation Skills Workshop	
	13:30-14:30	 LUNCH			
	14:30-15:30	 Coffee with Keynote Lecturers: J. S. Valacich, G. J. Hidding			
	15:30-17:00	5A. Business Intelligence	5B. Information Technology in Business and Government	5C. G. Nezelek: Presentation Skills Workshop	
	17:15-18:15	6A. Business Intelligence	6B. Language Technologies	6C. G. Nezelek: Presentation Skills Workshop	
	18:30-20:00	7A. Panel Discussion			
	21:00-22:30	  Welcome Cocktail, 21:00-22:30 (light dinner included)			
Tuesday, June 26	08:30-09:45		8B. Technology Enhanced Education	8C. Poster Session	Tuesday, June 26
	10:00-11:00	9A. Keynote Lecture: A. Rindos			
	11:30-12:30	10A. Special Lecture: C. W. Holsapple			
	12:45-13:30	11A. R. D. De Veaux: "Statistics for Engineers" Special Workshop	11B. Technology Enhanced Education	11C. Poster Session	
	13:30-14:30	 LUNCH			
	14:30-15:30	 Coffee with Keynote Lecturers: A. Rindos, C. W. Holsapple			
	15:30-17:00	12A. R. D. De Veaux: "Statistics for Engineers" Special Workshop	12B. Technology Enhanced Education		
	17:15-19:00	13A. R. D. De Veaux: "Statistics for Engineers" Special Workshop	13B. Technology Enhanced Education		
	19:30-20:00		14B. IPC Meeting		
	21:00-	  Night Club Party			
Wednesday, June 27	08:30-09:45	15A. Data Mining, Statistics, and Biometrics	15B. Modeling, Simulation and Optimization		Wednesday, June 27
	10:00-11:00	16A. Keynote Lecture: J. Sölkner			
	11:30-12:30	17A. Data Mining, Statistics, and Biometrics.	17B. Modeling, Simulation and Optimization	17C. Theory of Computing, Comp. Meth. and SW Engineering	
	12:30-13:30	18A. Data Mining, Statistics, and Biometrics	18B. Modeling, Simulation and Optimization	18C. Theory of Computing, Comp. Meth. and SW Engineering	
	13:30-14:30	 LUNCH			
	15:00-24:00	   Excursion and Conference Dinner			
Thursday, June 28	08:45-09:45	19A. BIOSTAT School			Thursday, June 28
	10:00-11:00	20A. Special Lecture: R. Paul			
	11:30-12:30	21A. BIOSTAT School	21B. Networking, Grids, Middleware and Distributed Platforms	21C. Knowledge Management and Colaboration Systems	
	12:30-13:30	22A. BIOSTAT School	22B. Networking, Grids, Middleware and Distributed Platforms	22C. Human Computer Interaction	
	13:30-14:30	 LUNCH			
	14:30-15:30	 Coffee with Keynote and Special Lecturers: J. Sölkner, R. Paul			
	15:30-16:00	23A.  2012 CLOSING and AWARDS			

ITI 2012 Conference Program Events

CONTRIBUTED PAPER SESSIONS

Special Topic/Session:

“Academic and Business Collaboration: Innovative BI”

Topics of interest:

Networking, Grids, Middleware and Distributed Platforms
Business Intelligence, Information Systems and Databases
Knowledge Management and Collaboration Systems
Human Computer Interaction
Technology Enhanced Education
Information Technology in Business and Government
Data Mining, Statistics and Biometrics
Language Technologies
Modeling, Simulation and Optimization
Theory of Computing, Computing Methodologies and Software Engineering

KEYNOTE LECTURES

Joseph S. Valacich, The University of Arizona, USA

Title: *Designing Effective Web Sites: How Academic Research Influences Practice*

🕒 Monday, June 25, 10:00 - 11:00, Orlando Hall.

Gezinus J. Hidding, Loyola University Chicago Illinois, USA

Title: *I.S. Research of Business Practices: Many, One or Zero Academic Disciplines?*

🕒 Monday, June 25, 11:30 - 12:30, Orlando Hall.

Andrew Rindos, University Relations for IBM North Carolina, USA

Title: *Innovation within IBM (and WebSphere) Development through University Collaborations*

🕒 Tuesday, June 26, 10:00 - 11:00, Orlando Hall.

Clyde W. Holsapple, University of Kentucky, USA

Title: *The Knowledge of Business Intelligence*

🕒 Tuesday, June 26, 11:30 - 12:30, Orlando Hall.

Johann Sölkner, University of Natural Resources and Life Sciences Vienna, Austria

Title: *Very Many Variables and Limited Numbers of Observations;*

The $p \gg n$ Problem in Current Statistical Applications

🕒 Wednesday, June 27, 10:00 - 11:00, Orlando Hall.

SPECIAL LECTURE

Ray J. Paul, Brunel University, UK

Title: *Healthcare Information Systems from a User Perspective*

🕒 Thursday, June 28, 10:00 - 11:00, Orlando Hall.

ITI 2012 Panel Discussions / Workshops

PANEL DISCUSSION

Title: ***“Big Data” Management and Analytics***

Moderator: Mladen A. Vouk, North Carolina State University, USA

Panelists:

Gezinus J. Hidding, Loyola University Chicago, USA

Clyde W. Holsapple, University of Kentucky, USA

Andrew Rindos, IBM RTP Center for Advanced Studies, USA

Joseph S. Valacich, The University of Arizona, USA

🕒 Monday, June 25, 18:30 - 20:00, Orlando Hall.

All participants are invited to contribute to the discussion.

WORKSHOPS

Title: ***“Statistics and Data Mining for Computer Scientists, Engineers, Blacksmiths and Lawyers”***

Presenter: Richard D. De Veaux, Williams College, Massachusetts, USA

🕒 Tuesday, June 26, 12:45-13:30 and 15:30-19:00, Orlando Hall.

Abstract: Workshop will attempt to cover the basic ideas of exploratory and confirmatory statistics in a whirlwind couple of hours. The audience is anyone who wants to know more about statistics and why statisticians worry about the things they do. The topics will be illustrated by examples from real world problems.

Title: ***“Presentation Skills”***

Presenter: George S. Nezlek, Independent Systems Consultant, Michigan, USA

🕒 Monday, June 25, 12:45-13:30 and 15:30-18:15, Salon 5.

Abstract: Authors typically devote much more time and effort to the papers they write as compared to preparing and rehearsing the presentation of those papers after they are accepted. This workshop will offer suggestions for authors seeking to get more results for the time and effort they put into their writing by helping them get the most from their presentations. The workshop is geared toward student authors and first time attendees, but anyone interested in analyzing and improving their presentation skills is welcome. Student presenters are encouraged to use the workshop to fine tune their materials for presentation at the conference.

ITI 2012 Committees

INTERNATIONAL PROGRAM COMMITTEE

Chair:

Vesna Luzar-Stiffler, SRCE University Computing Centre, University of Zagreb, Croatia

Vice-Chairs:

Leonard B. Hearne,	University of Missouri-Columbia, USA
Nenad Jukic	Loyola University Chicago, USA
Keiichi Kaneko,	Tokyo University of Agriculture and Technology, Japan
Jasna Kuljis,	Brunel University, UK
Zelimir Kurtanek,	University of Zagreb, Croatia
Robert Manger,	University of Zagreb, Croatia
Dunja Mladenec	Jožef Stefan Institute, Slovenia
George S. Nezlek,	Independent Systems Consultant, Michigan, USA
Thurasamy Ramayah,	Universiti Sains Malaysia, Malaysia
Diana Simic,	University of Zagreb, Croatia

Members:

Hojjat Adeli, USA	Tarzan Legovic, Croatia
Damir Boras, Croatia	Sven Loncaric, Croatia
Ivan Bratko, Slovenia	Olivera Marjanovic, Australia
Felix Breitenacker, Austria	Nikos E. Mastorakis, Greece
Leo Budin, Croatia	Annie Morin, France
Bojana Dalbelo Basic, Croatia	Ingram Olkin, USA
Georgios I. Doukidis, Greece	Ray J. Paul, UK
Nancy Flournoy, USA	Mike Pidd, UK
Ivan Futo, Hungary	Slobodan Ribaric, Croatia
Matjaz Gams, Slovenia	Andrew F. Seila, USA
Vlado Glavinic, Croatia	Darko Skorin-Kapov, USA
Patrick J. Halloran, Australia	Asim Smailagic, USA
Vlatka Hlupic, UK	Johann Sölkner, Austria
Andras Javor, Hungary	Wim Van Petegem, Belgium
Anamarija Jazbec, Croatia	Tapio Varis, Finland
Damir Kalpic, Croatia	Mladen A. Vouk, USA
Josipa Kern, Croatia	Silvije Vuletic, Croatia
Slavko Krajcar, Croatia	Katerina Zdravkova, R. Macedonia
Dieter Kranzlmüller, Germany	Blaz Zupan, Slovenia

BIOSTAT SYMPOSIUM 2012

19th MEETING OF RESEARCHERS IN BIOMETRICS / STATISTICS

BIOSTAT Topics:

- Data Visualization
- Space Reduction Methods
- Prediction and Classification
- Computationally Intensive Methods
- Time and Space Modeling, etc.

17th SCHOOL OF BIOMETRICS

Title: *Very many variables and limited numbers of observations;*

The $p \gg n$ problem in current statistical applications

Invited Lecturer: Johann Sölkner, University of Natural Resources and Life Sciences,
Vienna, Austria

Chair: Anamarija Jazbec

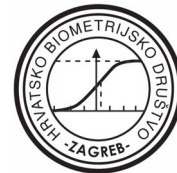
🕒 Thursday, June 28, 08:45 - 09:45 and 11:30 - 13:30, Orlando Hall.

Abstract: We have the problem of genotypes for hundreds of thousands (in human up to >2 million) markers available for each genotyped individual and how to deal with the problem of overfitting. I would talk about prune/bundle/shrink strategies and statistics meeting machine learning

CO-ORGANIZERS



SRCE - University Computing Centre



HBMD - Croatian Biometric Society

ITI 2012 Conference Social Events

ITI WELCOME COCKTAIL – Monday, June 25, 21:00 – 22:30

All the participants are kindly invited to the welcome cocktail, which will take place in the area adjacent to the swimming pool of the Hotel Croatia. Light dinner and drinks will be served.

Please have your accreditation tag ready to enter.

Additional tickets are available for sale at the Conference desk.



ITI NIGHT CLUB PARTY – Tuesday, June 26, 21:00 -

Join your colleagues at ITI Night Club Party on Tuesday evening in the Night Bar Poseidon. We are providing two coupons that you can exchange for two complimentary drinks at the Night Bar.



ITI CONFERENCE LUNCHES – June 25-28, 13:30 - 14:30

Lunches are included in the conference regular fee and will be served in “Konavle” restaurant.

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 for the day indicated on the ticket.

Children present at lunch should have Lunch Tickets in accordance to the Hotel regulations. Additional Lunch Tickets are available for sale at the Conference desk.

COFFEE BREAKS AND „K&K“ TIME SLOTS – June 25-28

Refreshments will be served during coffee breaks (morning and afternoon, usually on the Orlando Hall terrace) and during “Kava” (coffee) with Keynote Speakers (“K&K”) time slots (14:30-15:30) daily in the Quiet Salon.

TO VISIT THE CITY OF DUBROVNIK

If you wish to visit the city of Dubrovnik during or after the Conference, please contact a tourist agency in the Hotel lobby.

TICKETS FOR THE ITI EXCURSION AND CONFERENCE DINNER

If you plan to join the ITI Excursion and Conference Dinner, please fill in the Excursion and Conference Dinner form (provided with the Conference materials) and make sure to exchange it for the Excursion and Conference Dinner Tickets (with coupons) at the Conference Desk not later than

Tuesday, June 26, 9:00 a.m.

Additional Excursion and Conference Dinner Tickets are available for sale at the Conference desk.

ITI 2012 Conference Social Events

ITI EXCURSION TO KONAVLE VALLEY – Wednesday, June 27, 15:00 – 19:00

Our first stop is a household in the Konavle valley, where we'll see characteristics of a village life in the past and in the present. You can walk through vineyard and orchard, sample local wine, brandy, cheese, prosciutto and other household products and learn about local history from the ethno museum.

To board the bus, each participant must have Excursion Bus Ticket in hand.

✓ ***Please dress casually for the Excursion.***

The next stop is Konavle County House which was founded in 1974 and used to be the village treasury. Today it holds the collection of about 500 ethnological items, such as male and female folk costumes of the highest quality, embroidery and other textile handcrafts, jewellery, arms, musical instruments and items used in the everyday life. We will also witness a presentation of traditional folk dance.

Dubrovnik - Old City

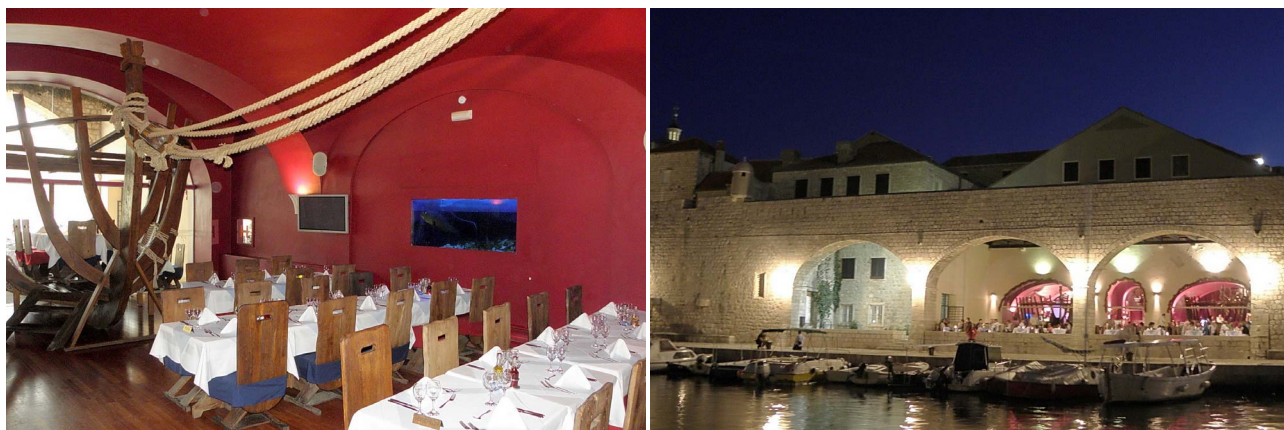
Old City of Dubrovnik is a world famous heritage site, and one of the Mediterraneans most beautiful cities. We will take a walk down the main street Stradun while getting the first impressions of the city. Abundance of historic monuments are situated within walking distance, including the Large Onofrio Fountain, City Bell-Tower, Orlando Column, Major Council Palace and the Church of St Blaise.



ITI CONFERENCE DINNER – Wednesday, June 27, 20:00 – 24:00

Restaurant Arsenal is situated in the historical centre of Dubrovnik, with a view of the sea and the old port with anchored replicas of sailing ships from the rich Dubrovnik history. The restaurant occupies the space of former shipyard, presented by the extraordinary rustic interior filled with details made of oak-wood. Pleasant atmosphere will be completed by live music performance.

✓ Please have your Conference Dinner Ticket (with coupons) on the table.



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Time	A Orlando	B Bobara	C Salon 5
09:15-10:00	Session 1A ITI 2012 Opening & Welcome		
10:00-11:00	Session 2A KEYNOTE LECTURE Joseph S. Valacich <i>Designing Effective Web Sites: How Academic Research Influences Practice</i> Chair: Vesna Luzar-Stiffler		
11:00-11:30	ITI 2012 Welcome Drink (Sponsored by Hotel Croatia)		
11:30-12:30	Session 3A KEYNOTE LECTURE Gezinus J. Hidding <i>I. S. Research of Business Practices: Many, One or Zero Academic Disciplines?</i> Chair: Nenad Jukic		
12:45-13:30	Session 4A BUSINESS INTELLIGENCE Rozeňnal, P., Tyrdikova, M. <i>Cooperation of Academic and Commercial Sphere during the Implementation of BI by the Means of SaaS</i> Velasco, M., Jukic, N. <i>Increasing Actionability of In-House Corporate Prediction Markets</i> Espadinha-Cruz, P., Cabral, I., Grilo, A., Cruz-Machado, V. <i>Information Model for LARGeSCM Interoperable Practices</i>	Session 4B INFORMATION TECHNOLOGY IN BUSINESS AND GOVERNMENT Bourret, C. <i>Issues of Information and Communication for New Managerial Approaches: The Challenges of the French Health System</i> Šumak, B., Pušnik, M., Heričko, M. <i>Towards an E-Business Acceptance Model: Identification of External Factors</i> Petrijevcanin Vuksanovic, I., Sudarevic, B. <i>Toward a Framework for Implementing Open Source Software in Public Administrations: Legal, Economic and Societal Aspects</i>	Session 4C WORKSHOP Presenter: George S. Nezlek Title: "Presentation Skills"

Time	A Orlando	B Bobara	C Salon 5
13:30-14:30	CONFERENCE LUNCH (Restaurant Konavle, Hotel Croatia)		
14:30-15:30	Coffee with Keynote Lecturers: Joseph S. Valacich, Gezinus J. Hidding (Quiet Salon, Hotel Croatia)		
15:30-17:00	Session 5A BUSINESS INTELLIGENCE Chair: Xiaohui Liu Skersys, T., Tutkute, L., Butleris, R. <i>The Enrichment of BPMN Business Process Model with SBVR Business Vocabulary and Rules</i> Picek, R., Grčić, M. <i>ERP System Database Environment Configuration Using a Web Application</i> Velić, M., Padavić, I., Lovrić, Z. <i>Model of the New Sales Planning Optimization and Sales Force Deployment ERP Business Intelligence Module for Direct Sales of the Products and Services with Temporal Characteristics</i> Hancu, L. <i>Acquiring Business Ecosystem's Intelligence through Large-Scale Collaborative Systems</i> Kvesić, Lj., Dukić, G. <i>Risk Management and Business Credit Scoring</i> Teohareva Filipova, B., Martinovska, C. <i>Analysing Customer Profiles Using Data Mining Techniques</i>	Session 5B INFORMATION TECHNOLOGY IN BUSINESS AND GOVERNMENT Chair: Diana Šimić Krizanovic, V., Zagar, D., Martinovic, G. <i>Mobile Broadband Access Networks Planning and Evaluation Using Techno-economic Criteria</i> Ebibi, M., Snopce, H., Fetaji, B., Fetaji, M. <i>Quantifying the Business Benefits of Implementing M-commerce Software Solutions</i> Sprenić, M. <i>Corporate IT Risk Management Model: A Holistic View at Managing Information System Security Risks</i> Tomicic-Pupek, K., Dobrovic, Z., Tomicic Furjan, M. <i>Strategies for Information Systems Integration</i> Milošević, I., Šimović, V. <i>Comparison of Private Cloud Infrastructure Implementation Models</i>	Session 5C WORKSHOP Presenter: George S. Nezelek Title: "Presentation Skills"
17:00-17:15	COFFEE BREAK (Orlando Hall Terrace)		

Time	A Orlando	B Bobara	C Salon 5
17:15-18:15	Session 6A BUSINESS INTELLIGENCE Chair: Kay I Penny Tomas, B., Vuksic, B. <i>Peer to Peer Distributed Storage and Computing Cloud System</i> Fortis, T.-F., Munteanu, V. I., Negru, V. <i>Steps Towards Cloud Governance. A Survey</i> Habul, A., Kremic, E., Habul, M. <i>Petri Net Model and the E-Application Development</i>	Session 6B LANGUAGE TECHNOLOGIES Chair: Dunja Mladenicić Pohorec, S., Čeh, I., Zorman, M., Mernik, M., Kokol, P. <i>Natural Language Processing Resources: Using Semantic Web Technologies</i> Brkić, M., Bašić Mikulić, B., Matetić, M. <i>Can We Beat Google Translate?</i> Pavlina, K. <i>Using Google Search Engine for Word Frequency Analysis</i> Muhić, M., Rupnik, J., Škraba, P. <i>Cross-Lingual Document Similarity</i>	Session 6C WORKSHOP Presenter: George S. Nezelek Title: "Presentation Skills"
18:30-20:00	Session 7A PANEL Moderator: Mladen A. Vouk "Big Data" Management and Analytics Panelists: Gezinus J. Hidding, Clyde W. Holsapple, Andrew Rindos, Joseph S. Valacich		
21:00-22:30		ITI WELCOME COCKTAIL (near Hotel Croatia swimming pool - light dinner included)	

Time	A Orlando	B Bobara	C Salon 5
08:30-09:45		Session 8B TECHNOLOGY ENHANCED EDUCATION Chair: Keiichi Kaneko Dukić, D., Kozina, G. <i>Attitudes of Undergraduate Students with The Internet as a Learning Support Tool</i> Rizman Herga, N., Dinevski, D. <i>Using a Virtual Laboratory to Better Understand Chemistry – an Experimental Study on Acquiring Knowledge</i> Krpan, D., Stankov, S. <i>Educational Data Mining for Grouping Students in E-learning System</i> Slotkiene, A. <i>Peculiarities of Applying the Design Method of Active Learning Object</i> Golubić, K., Lasić-Lazić, J. <i>Analysis of On-line Survey about Need for Presence of Higher Education Institutions on Social Networks: A Step Towards Creation of Communication Strategy</i>	Session 8C POSTER SESSION BUSINESS INTELLIGENCE Karlovec, M., Mladenović, D., Grobelnik, M., Jermol, M. <i>Visualizations of Business and Research Collaboration in Slovenia</i> Martinec, F., Volner, R. <i>Application of unmanned aircraft systems to search people in the terrain</i> TECHNOLOGY ENHANCED EDUCATION De Maria, V. A. <i>E-learning: A New Way of Living Learning and Educational Experiences</i> Luba, K. M., Nežlek G. S., De Hondt, G. <i>When More is Less</i> <i>The Paradox of Technology in Medical Education & Practice</i>
10:00-11:00	Session 9A KEYNOTE LECTURE Andrew Rindos <i>Innovation within IBM (and WebSphere) development through university collaborations</i> Chair: Mladen Vouk		
11:00-11:30	☕ COFFEE BREAK (Sponsored by Optika kabel TV d.o.o)		

Time	A Orlando	B Bobara	C Salon 5
11:30-12:30	Session IOA KEYNOTE LECTURE Clyde W. Holsapple <i>The Knowledge of Business Intelligence</i> Chair: Nenad Jukic		
12:45-13:30	Session IIA WORKSHOP Presenter: Richard D. De Veaux Title: <i>Statistics and Data Mining for Computer Scientists, Engineers, Blacksmiths and Lawyers</i>	Session IIB TECHNOLOGY ENHANCED EDUCATION Chair: Keiichi Kaneko Tada, C., Wada, N., Kaneko, K. (Student paper) <i>A Learning System for Matrix Operations by Interactive Drilling</i> Marengo, A., Pagano, A., Barbone, A. <i>Adaptive Learning: A New Approach in Student Modeling</i> Smolyaninova, O. G. <i>Applied Bachelor Degree Programs as Technology Enhanced Education in the Innovative Russia (Implementation Experience in Krasnoyarsk Region)</i>	Session IIC POSTER SESSION Chair: Bekim Fetaji HUMAN COMPUTER INTERACTION Spireva, B., Ognenoski, O., Kraljevski, I. <i>Utilizing 3D Animation Software and Motion Sensing Technologies for Macedonian Folk Dances Visualization and Analysis</i> Volner, R., Martinec, F., Černák, I. <i>HCI in Personal Health Information Management</i> MODELING, SIMULATION AND OPTIMIZATION Hudec, J. <i>An Effective Technique for Automatic Processor Functional Testing using Genetic Algorithm Properties</i> THEORY OF COMPUTING, COMPUTING METHODOLOGIES AND SOFTWARE ENGINEERING Fetaji, M., Fetaji, B., Ebibi, M. <i>Measuring Algorithms Performance in Dynamic Linked List and Arrays</i>
13:30-14:30	✕	CONFERENCE LUNCH (Restaurant Konavle, Hotel Croatia)	
14:30-15:30	☞☞	Coffee with Keynote Lecturers: Andrew Rindos and Clyde W. Holsapple (Quiet Salon, Hotel Croatia)	

Time	A Orlando	B Bobara	C Salon 5
15:30-17:00	Session I2A WORKSHOP Presenter: Richard D. De Veaux Title: <i>Statistics and Data Mining for Computer Scientists, Engineers, Blacksmiths and Lawyers</i>	Session I2B TECHNOLOGY ENHANCED EDUCATION Chair: Kay I Penny Penny, K. I., Dukic, D. <i>E-learning Participation in Higher Education: A Study of Scottish and Croatian Students</i> Đurek, V., Begičević Ređep, N., Divjak, B. <i>Preconditions for the Implementation of E-learning in Primary Schools in the Republic of Croatia – Pupils' Perspective</i> Dukić, G., Kozina, G. <i>Knowledge Management in Higher Education: ICT Equipment, Skills and Attitudes of Croatian Polytechnic Students</i> Orehovacki, T. Radošević, D., Konecki, M. <i>Acceptance of Verificator by Information Science Students</i> Kuzic, J., Mesarić, J. <i>Enablers of Online Training (OT) in Australia's Recreation and Other Services Industry</i> Fetaji, B., Ebibi, M., Fetaji, M. <i>Expert Based Learning (EXBL) Methodology and Performance Measurement Quiz (PMQ) to Evaluate Learning and Develop Performance Measures</i>	
17:00-17:15	☞	COFFEE BREAK (Orlando Hall Terrace)	

Time	A Orlando	B Bobara	C Salon 5
17:15-19:00	Session I3A WORKSHOP Presenter: Richard D. De Veaux Title: <i>Statistics and Data Mining for Computer Scientists, Engineers, Blacksmiths and Lawyers</i>	Session I3B TECHNOLOGY ENHANCED EDUCATION Chair: Keiichi Kaneko Hearne, L. B. <i>Cardinality of Simplexes in a Delaunay Tessellation</i> Stojanovski, J., Papić, A. <i>Quantitative Indicators of Academic Libraries' Involvement in Educational Process</i>	
19:30-20:00		Session I4B IPC MEETING Chair: Vesna Lužar-Stiffler	
21:00-.....		ITI 2012 NIGHT CLUB PARTY (Night Bar Poseidon)	

Time	A Orlando	B Bobara	C Salon 5
08:30-09:45	Session 15A DATA MINING, STATISTICS AND BIOMETRICS Cyganek, B. <i>A Framework for Data Representation, Processing, and Dimensionality Reduction with the Best-Rank Tensor Decomposition</i> Jakopec, T., Hoare, C., O’Riordan, A. <i>Web Connectivity of Higher Education Institutions within a Country: A Comparison of Croatia and Ireland</i> Chair: Leonard B. Hearne	Session 15B MODELING, SIMULATION AND OPTIMIZATION Osetova-Dudin, E., Radeva, S., Radev, D. <i>Modeling an Simulation of Handover Priority Schemes for Broadband Wireless Networks</i> Saletović, E., Mateljan, T. <i>Control of Linear Stationary Stochastic Systems with Constraints APM vs. PID vs. Matlab MPC</i> Pajk, D., Indihar-Štemberger, M., Kovačič, A. <i>Reference Model Design: An Approach and Its Application</i> Rocha, J. L., Aleixo, S. M. <i>Modeling Allee Effect from Beta(p,2) Densities</i> Chair: Želimir Kurtanijek	
10:00-11:00	Session 16A KEYNOTE LECTURE Johann Sölkner <i>Very many variables and limited numbers of observations; The $p \gg n$ problem in current statistical applications</i> Chair: Diana Šimić		
11:00-11:30		COFFEE BREAK (Orlando Hall Terrace)	

Time	A Orlando	B Bobara	C Salon 5
11:30-12:30	Session 17A DATA MINING, STATISTICS AND BIOMETRICS Chair: Leonard B. Hearne Grd, D., Dobsa, J., Simunic-Meznarić, V., Tompic, T. (Student paper) <i>Analysis of Heavy Metals Concentration in Wastewater along Highways in Croatia</i> Dali, L., Mladenović, D. <i>BICKELJ: Environmental Data Mining on the Bicycle</i> Koruga, P., Baca, M., Fotak, T. <i>Knowledge Visualization in Biometric Face Recognition on Two-dimensional Images</i> Lukić, I., Köhler, M., Slavek, N. <i>Improved Bisector Pruning for Uncertain Data Mining</i>	Session 17B MODELING, SIMULATION AND OPTIMIZATION Chair: Želimir Kurtanijek Eshmurzaev, B., Dalkilic, G. (Student paper) <i>Analysis of EAP-FAST Protocol</i> Kremic, E., Subasi, A., Hajdarevic, K. <i>Face Recognition Implementation for Client Server Mobile Application Using PCA</i> Meccariello, G., Della Razione, L., Costagliola, M.A., Prati, M.V. <i>Evaluation of Emission Factors for New Technology S. I. Euro 4 Cars</i> Bojkovska, R., Mitreski, K. <i>Ambient Air Quality in the Republic of Macedonia from the Perspective of EU Directive</i>	Session 17C THEORY OF COMPUTING, COMPUTING METHODOLOGIES AND SOFTWARE ENGINEERING Chair: Robert Manger Androcec, D., Dobrovic, Z. (Student paper?) <i>Creating Hybrid Software Engineering Methods by Means of Metamodels</i> Ribarski, P., Antovski, Lj. <i>Mixnets: Implementation and Performance Evaluation of Decryption and Re-encryption Types</i> Tanković, N., Vukotić, D., Žagar, M. <i>Rethinking Model Driven Development: Analysis and Opportunities</i> Pusnik, M., Sumak, B., Hericko, M. <i>XML Schema Domain Identification</i>
12:30-13:30	Session 18A DATA MINING, STATISTICS AND BIOMETRICS Chair: Marija Pecina Aleixo, S. M., Rocha, J. L. <i>Generalized Models from Beta(p, 2) Densities with Strong Allee Effect: Dynamical Approach</i> Ogul, H., Ekmekciler, E. <i>Two-Way Collaborative Filtering on Semantically Enhanced Movie Ratings</i> Švogor, I., Kišasondi, T. <i>Two Factor Authentication using EEG Augmented Passwords</i>	Session 18B MODELING, SIMULATION AND OPTIMIZATION Chair: Livia Della Razione Corbalán, L., Hasperue, W., Lanzarini, L. <i>GAAP: Genetic Algorithm with Auxiliary Populations Applied to Continuous Optimization Problems</i> Vrankic, I., Oraic, M., Lukac, Z. <i>The Measure of Savings in the Production Process</i> Fira, M., Goras, L., Cleju, N., Barabasa, C. <i>Results on ECG Compressed Sensing Using Specific Dictionaries and Its Validation</i>	Session 18C THEORY OF COMPUTING, COMPUTING METHODOLOGIES AND SOFTWARE ENGINEERING Chair: Robert Manger Ristov, S., Gusev, M. <i>Superlinear Speedup for Matrix Multiplication</i>

Time	A Orlando	B Bobara	C Salon 5
12:30-13:30	🔊 Session I9A DATA MINING, STATISTICS AND BIOMETRICS Chair: Marija Pecina Papić, A., Badurina, B. <i>Educational Benefit Factors of Convergence of Academic Libraries' E-services and Learning Management System</i>	🔊 Session I9B MODELING, SIMULATION AND OPTIMIZATION Chair: Livia Della Ragione Gruszecki, J., Rogalski, T. <i>The Method of Aircraft Control System Evaluation</i>	
13:30-14:30	✕	CONFERENCE LUNCH (Restaurant Konavle, Hotel Croatia)	
15:00-24:00	🚐 ✕ ITI 2012 EXCURSION (to Konavle, Hydroelectric Power Plant) AND CONFERENCE DINNER (Restaurant „Arsenal“, Dubrovnik)		

Time	A Orlando	B Bobara	C Salon 5
08:45-09:45	Session 19A BIOSTAT SYMPOSIUM 2012 19th Meeting of Researchers in Biometrics / Statistics 17th School of Biometrics Chair: <u>Anamarija Jazbec</u> Invited Lecturer: Johann Sölkner Title: <i>Very many variables and limited numbers of observations; The $p > n$ problem in current statistical applications.</i>		
10:00-11:00	Session 20A SPECIAL LECTURE Chair: <u>Vesna Lužar-Stiffler</u> Ray J. Paul <i>Healthcare Information Systems from a User Perspective.</i>		
11:00-11:30	COFFEE BREAK (Orlando Hall Terrace)		
11:30-12:30	Session 21A BIOSTAT SYMPOSIUM 2012 19th Meeting of Researchers in Biometrics / Statistics 17th School of Biometrics Chair: <u>Anamarija Jazbec</u> Invited Lecturer: Johann Sölkner Title: <i>Very many variables and limited numbers of observations; The $p > n$ problem in current statistical applications.</i>	Session 21B NETWORKING, GRIDS, MIDDLEWARE AND DISTRIBUTED PLATFORMS Chair: <u>George S. Nežlek</u> Othmane, B., Hebri, R. S. A. (Student paper) <i>Cloud Computing & Multi-Agent Systems: A New Promising Approach for Distributed Data Mining</i> Vilutis, G., Daugirdas, L., Kavaliūnas, R., Šutienė, K., Vaidelys, M. <i>Model of Load Balancing and Scheduling in Cloud Computing</i>	Session 21C KNOWLEDGE MANAGEMENT AND COLLABORATION SYSTEMS Chair: <u>Jasna Kuljis</u> Moraru, A., Mladenčić, D. (Student paper) <i>A Framework for Semantic Enrichment of Sensor Data</i> Amaechi, A., Counsell, S. <i>Use Cases in Requirements Capture – Trends and Open Issues</i> Martinic, A., Fertalj, K., Kalpic, D. <i>Integrated Framework for Virtual Team Management</i>

Time	A Orlando	B Bobara	C Salon 5
11:30-12:30		➡ Session 21B (continuation) NETWORKING, GRIDS, MIDDLEWARE AND DISTRIBUTED PLATFORMS Chair: <u>George S. Nezelek</u> Koschel, A., Astrova, I., Schaaf, M., Ahlers, V., Gatzju Grivas, S., Kalja, A. <i>Asynchronous Messaging for OSGi</i>	➡ Session 21C (continuation) KNOWLEDGE MANAGEMENT AND COLLABORATION SYSTEMS Chair: <u>Jasna Kuljis</u> Korzun, D. G., Galov, I. V., Balandin, S. I. <i>Proactive Personalized Mobile Multi-Blogging Service on Smart-M3</i>
12:30-13:30	Session 22A BIOSTAT SYMPOSIUM 2012 19th Meeting of Researchers in Biometrics / Statistics 17th School of Biometrics Chair: <u>Anamarija Jazbec</u> Invited Lecturer: Johann Sölkner Title: <i>Very many variables and limited numbers of observations; The $p > n$ problem in current statistical applications.</i>	Session 22B NETWORKING, GRIDS, MIDDLEWARE AND DISTRIBUTED PLATFORMS Chair: <u>George S. Nezelek</u> Kriz, P., Maly, F. <i>Computer-aided OSPF Network Design Tool</i> Zahariev, P. Z., Hristov, G. V., Tsvetkova I. D. <i>An Approach towards Balanced Energy Consumption in Hierarchical Cluster-based Wireless Sensor Networks</i> Zahariev, P. Z., Hristov, G. V., Tsvetkova I. D. <i>Prolonging the Lifetime of Wireless Sensor Networks by Hierarchical Organization of the System in Clusters with Unequal Sizes</i>	Session 22C HUMAN COMPUTER INTERACTION Chair: <u>Jasna Kuljis</u> Zhang, L., Kuljis, J., Liu, X. <i>Visualization of High Throughput Biological Data</i>
13:30-14:30	✂	CONFERENCE LUNCH (Restaurant Konavle, Hotel Croatia)	
14:30-15:30	☕☕	Coffee with Keynote/Invited Lecturers: Johann Sölkner, Ray J. Paul (Quiet Salon, Hotel Croatia)	
15:30-16:00	Session 23A ITI 2011 CLOSING and AWARDS Chair: <u>Zoran Bekic</u>		
16:00-16:30	☕	FAREWELL COFFEE (Orlando Hall Terrace)	

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June 2012

ITI Organizing Committee
University Computing Centre - SRCE

ITI 2012 Conference Venue / Transportation

VENUE

Hotel Croatia, Cavtat

The Conference takes place at the luxurious 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.



Hotel address:

Croatia Hotel, Frankopanska 10, 20210 Cavtat, Croatia

Tel: +385 20 430 830 Fax: +385 20 430 835

Web: www.hotelcroatia.hr, e-mail: reservations@alh.hr

Airport transfer

For transfer from hotel “Croatia” hotel to the airport please contact hotel reception. Local transportation include bus, boat, taxi, and rent-a-car services. For details, please check at the hotel reception.

Note: Boats for Dubrovnik depart every half hour (wear sun-screen).

OTHER USEFUL INFORMATION

Currency, Money and Banks

Croatia’s unit of currency is the Kuna (Kn). Banks (banka) are generally open Monday to Friday 7.30 AM-7 PM (often with a break for lunch), and Saturday 7.30-11.30 AM. Money can also be changed in post offices, travel agencies and exchange offices (mjenjačnica), which have more flexible hours. Credit cards are generally accepted in hotels and restaurants, but be sure to ask before you order. You can also use ATMs (bankomat) to get cash. Many banks have ATMs in front of their building.

Banks: Cavtat (OTP, PBZ), Airport (OTP)

ATM machines: Hotel Croatia (PBZ), Cavtat (OTP, PBZ, ZB), Airport (PBZ, ZB)

Restaurants - good to know

The working hours of most restaurants are from 11AM till midnight. A restaurant’s menu is shown at the entrance, as well as the signs of the credit cards accepted (most major credit cards are generally accepted). The price includes taxes, but the service charge is almost never included and is not mandatory. It is customary; however, that the guest who is satisfied with the service leaves a tip for the waiter, 10% of the total amount is usually a fair tip.

Drinking water

Drinking water in Dubrovnik is of very good quality, constantly controlled, and comes mostly from the Ombla River, 5 km from Dubrovnik.

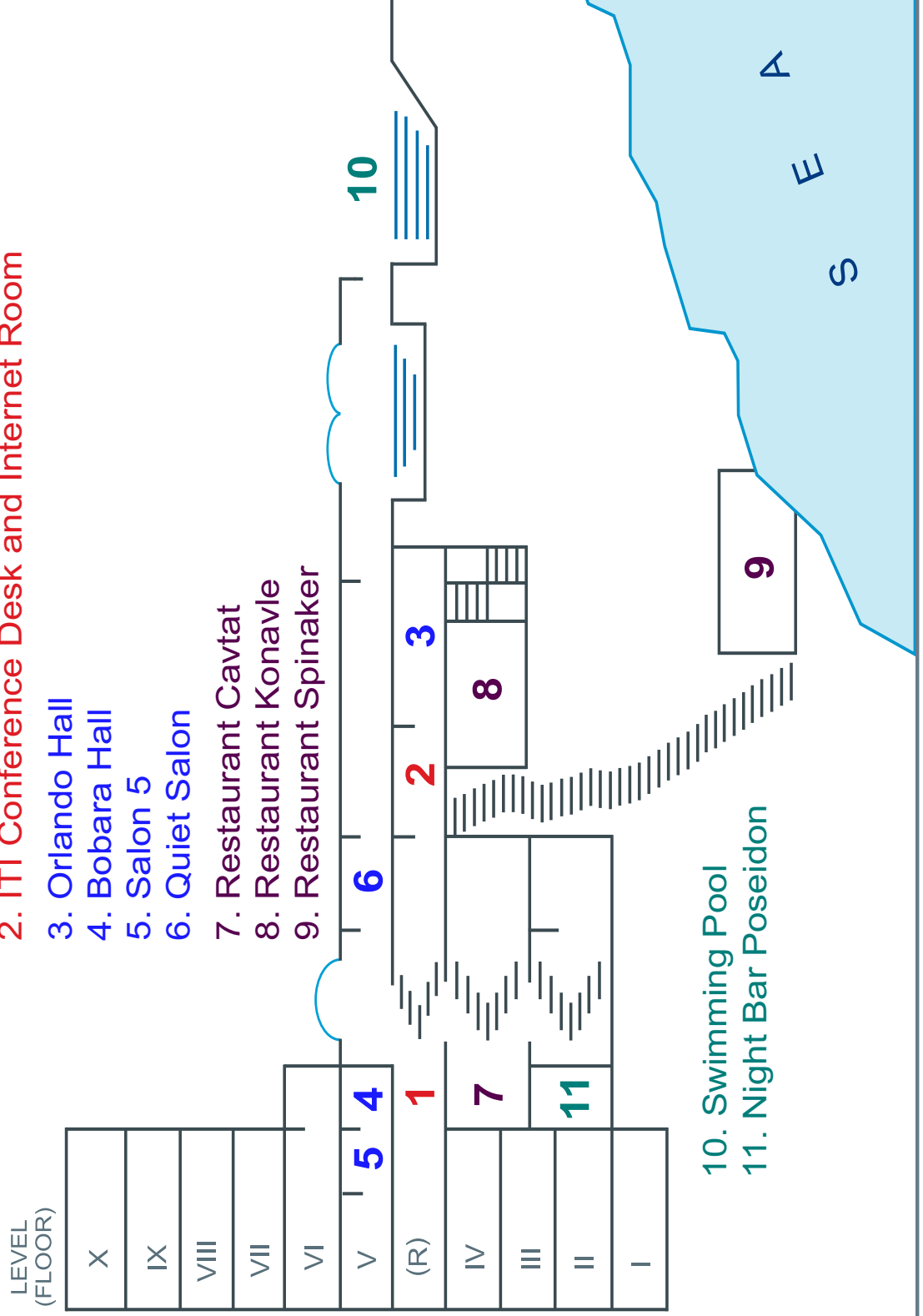
Map of the Hotel Croatia

- 1. Hotel Reception and Main Lobby
- 2. ITI Conference Desk and Internet Room

- 3. Orlando Hall
- 4. Bobara Hall
- 5. Salon 5
- 6. Quiet Salon

- 7. Restaurant Cavtat
- 8. Restaurant Konavle
- 9. Restaurant Spinaker

- 10. Swimming Pool
- 11. Night Bar Poseidon



NOTES