

35th International Conference on
INFORMATION TECHNOLOGY INTERFACES

IT 2013

Conference
Program

University Computing Centre
University of Zagreb

Organized by



June 24-27, 2013
Cavtat / Dubrovnik, Croatia

ITI 2013 Information for Participants and Presenters

CONFERENCE DESK / REGISTRATION

REGISTRATION starts on Sunday, June 23 at 19:00

CONFERENCE DESK WORKING HOURS:

Sunday,	June 23	19:00-21:00
Monday,	June 24	08:00-19:00
Tuesday,	June 25	09:00-19:00
Wednesday,	June 26	08:00-14:00
Thursday,	June 27	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.

2013 Conference at-a-Glance

	TIME	A ORLANDO	B SALON 5	
Monday, June 24	9:15-10:00	1A.  2013 OPENING and WELCOME		Monday, June 24
	10:00-11:00	2A. Keynote Lecture: B. Light		
	11:30-12:30	3A. Keynote Lecture: L. Gualtieri		
	12:45-13:30	4A. Special Topic: "Research and Education..."	4B. Information Technology in Business and Government	
	13:30-14:30	LUNCH		
	14:30-15:30	Coffee with Keynote Lecturer: B. Light		
	15:30-17:00	5A. L. Gualtieri: "Mobile Health Design" Tutorial	5B. Modeling, Simulation and Optimization and Special Topic: "Research and Education..."	
	17:15-18:15	6A. L. Gualtieri: "Mobile Health Design" Tutorial		
	18:30-20:00	7A. Panel Discussion		
	21:00-22:30	 Welcome Cocktail, 21:00-22:30 (light dinner included)		
Tuesday, June 25	10:00-11:00	8A. Keynote Lecture: R. Sharda		Tuesday, June 25
	11:30-12:30	9A. Keynote Lecture: R. Simon		
	12:45-13:30	10A. Business Intelligence, Information Systems and Databases	10B. Language Technologies	
	13:30-14:30	LUNCH		
	14:30-15:30	Coffee with Keynote Lecturers: R. Sharda, R. Simon		
	15:30-17:00	11A. G. Cerle: "VideoLectures - Next Generation Education?" Workshop	11B. Theory of Computing, Computing Methodologies and Software Engineering	
	17:15-19:00	12A. Rescheduled Presentations		
	19:30-20:00		13B. IPC Meeting	
21:00-	 Night Club Party, 21:00			
Wednesday, June 26	8:30-9:30	14A. Human Computer Interaction	14B. Knowledge Management and Colaboration Systems	Wednesday, June 26
	10:00-11:00	15A. Keynote Lecture: J. E. Vena		
	11:30-12:30	16A. Special Biostatistics Lecture: L. Hearne, T. Kazic	16B. Technology Enhanced Education	
	12:45-13:30	17A. Data Mining, Statistics, and Biometrics	17B. Technology Enhanced Education	
	13:30-14:30	LUNCH		
	15:00-24:00	 Excursion and Conference Dinner: 15:00		
Thursday, June 27	8:45-9:45	18A. BIOSTAT School	18B. Poster Session	Thursday, June 27
	10:00-11:00	19A. Special Lecture: R. Paul	19B. Poster Session	
	11:30-12:30	20A. BIOSTAT School	20B. Networking, Grids, Middleware and Distributed Platforms	
	12:30-13:30	21A. BIOSTAT School	21B. Networking, Grids, Middleware and Distributed Platforms	
	13:30-14:30	LUNCH		
	14:30-15:30	Coffee with Keynote and Special Lecturers: J. E. Vena, L. Hearne, T. Kazic, R. Paul		
	15:30-16:00	22A.  2013 CLOSING and AWARDS		

IMPORTANT NOTE:

Presentation time (including discussion)

Keynote: **60 min**; Contributed: **15 min**

ITI 2013 Conference Program Events

CONTRIBUTED PAPER SESSIONS

Special Topic/Session:

“Research and Education using Mobile and Social Networking: When, Where, and How”

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

Ben Light, University of Salford's School of Media, Music and Performance, Manchester, UK

Title: *Digitally Mediated Social Networking Practices: A Focus on Connectedness and Disconnectedness*

Monday, June 24, 10:00 - 11:00, Orlando Hall.

Lisa Gualtieri, Tufts University School of Medicine, Boston, Massachusetts, USA

Title: *Cancer Patient Blogs: How Patients, Clinicians, and Researchers Learn from Rich Narratives of Illness*

Monday, June 24, 11:30 - 12:30, Orlando Hall.

Ramesh Sharda, Spears School of Business at Oklahoma State University, USA

Title: *Business Analytics: Research and Teaching Perspectives*

Tuesday, June 25, 10:00 - 11:00, Orlando Hall.

Robert Simon, George Mason University, Fairfax, Virginia, USA

Title: *The Impact of Packet Fragmentation on Internet-of-Things Enabled Systems*

Tuesday, June 25, 11:30 - 12:30, Orlando Hall.

John E. Vena, University of Georgia, USA

Title: *Applications of Geographic Information Systems and Geo-spatial Modeling in Environmental Epidemiology*

Wednesday, June 26, 10:00 - 11:00, Orlando Hall.

SPECIAL BIostatISTICS LECTURE

Title: **Statistical Linkage across High Dimensional Observational Domains**

Presenters: **Leonard B. Hearne**, Life Sciences Center and Dept. of Statistics, University of Missouri, USA and **Toni Kazic**, University of Missouri Informatics Institute and Dept. Of Computer Science, University of Missouri, USA

Abstract: *Many experimental sciences collect different kinds of high-dimensional data on the same experimental units. When comparing relationships among homogeneous regions in one high dimensional domain with regions in another high dimensional domain, the number of possible comparisons may be extremely large and their complexity unknown.*

We outline procedures for identifying possible relationships among regions in two different high-dimensional domains. These procedures are useful when the complexity of relationships is unknown or varies. If the data are dense enough, then statistical measures of association can be estimated. These procedures can identify and measure the probability of inter-domain associations of mixed complexity.

Wednesday, June 26, 11:30 - 12:30, Orlando Hall

ITI 2013 Panel Discussion / Tutorial / Workshop

PANEL DISCUSSION

Title: “Research and Education using Mobile and Social Networking: When, Where, and How”

Moderator: Nenad Jukic, Loyola University Chicago, USA

Panelists: Ramesh Sharda, Spears School of Business at Oklahoma State University, USA
Robert Simon, George Mason University, Fairfax, Virginia, USA
Gaber Cerle, “Jozef Stefan” Institute, Ljubljana, Slovenia
Damir Kalpić, University of Zagreb, Croatia
Boris Jukic, Clarkson University, USA

Monday, June 24, 18:30 - 20:00, Orlando Hall.

All participants are invited to contribute to the discussion.

TUTORIAL

Title: *Mobile Health Design*

Presenter: Lisa Gualtieri, Tufts University School of Medicine, Boston, Massachusetts, USA

Abstract. *This tutorial examines the impact and potential of mobile devices for health, a growing area of importance since many health organizations have or are thinking about creating apps. Using design methodologies, participants will conceptualize and design health apps that incorporate evidence-based guidelines and behavioral models, and capitalize on the mobility, portability, and input/output capabilities of mobile devices. We will consider the mobile user experience: how healthcare consumers locate health apps and decide to download and try them; how they use health apps and why they sustain or abandon use; and health benefits, focusing on how apps educate, connect, track, and remind and if they do so at the request of their owner or in a proactive and/or predictive way. We will also examine global use of mobile devices. Finally, we will look at the impact on mobile health design of big data and predictive analytics and of other devices including sensors and Google Glass.*

Monday, June 24, 15:30 - 18:15, Orlando Hall

WORKSHOP

Title: *VideoLectures - Next Generation Education?*

Presenter: Gaber Cerle, “Jozef Stefan” Institute, Ljubljana, Slovenia

Workshop Outline:

- Introduction of VideoLectures.NET, mission and how we work
- Wider Cooperation (K4A, UNESCO, OCWC, UNESCO Chair, PASCAL, "Opening up Education", Finch report, Open Access in FP7...)
- Present Technology (services & user experience)
- Future Services (translectures & mediamixer projects)
- Near Future Plans - What will happen

Tuesday, June 25, 15:30-17:00, Orlando Hall

SPECIAL LECTURE

Title: *What sort of systems are healthcare systems?*

Presenter: **Ray J. Paul**, Distinguished Professor of Information Systems, Brunel University, UK

Thursday, June 27, 10:00 - 11:00, Orlando Hall

ITI 2013 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
Damir Kalpic,	University of Zagreb, Croatia
Keiichi Kaneko,	Tokyo University of Agriculture and Technology, Japan
Jasna Kuljis,	Brunel University, UK
Zelimir Kurtanjek,	University of Zagreb, Croatia
Robert Manger,	University of Zagreb, Croatia
Dunja Mladenic,	Jožef Stefan Institute, Slovenia
Thurasamy Ramayah,	Universiti Sains Malaysia, Malaysia
Diana Simic,	University of Zagreb, Croatia

Members:

Hojjat Adeli, USA	Sven Loncaric, Croatia
Damir Boras, Croatia	Olivera Marjanovic, Australia
Ivan Bratko, Slovenia	Nikos E. Mastorakis, Greece
Felix Breitenecker, Austria	Annie Morin, France
Leo Budin, Croatia	George S. Nezlek, USA
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
Nenad Jukic, USA	Mladen A. Vouk, USA
Josipa Kern, Croatia	Silvije Vuletic, Croatia
Slavko Krajcar, Croatia	Katerina Zdravkova, R. Macedonia
Dieter Kranzlmüller, Germany	Blaz Zupan, Slovenia
Tarzan Legovic, Croatia	

BIOSTAT SYMPOSIUM 2013

20th MEETING OF RESEARCHERS IN BIOMETRICS / STATISTICS

BIOSTAT Topics:

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

18th SCHOOL OF BIOMETRICS

Title: Applications of Geographic Information Systems and Geo-spatial Modeling in Environmental Epidemiology

Invited Lecturer: **John E. Vena**, University of Georgia, USA

Chair: Anamarija Jazbec

Thursday, June 27, 08:45 - 09:45 and 11:30 - 13:30, Orlando Hall.

Abstract: *The ability of environmental epidemiology to determine the relationships between health and environmental insults has become exceedingly difficult. The multifactorial nature of disease and the diversity of the insults, which include biologic, physical, social and cultural factors, combined with genetic susceptibility, suggest the need to incorporate comprehensive perspectives of multidisciplinary epidemiologic investigation; utilize tools, such as geographic information systems (GIS) and other geospatial methods, which can integrate multi-level, spatial, and temporal factors and can help limit the potential for misclassification of exposure estimates; and to encourage collaborations and creativity in the field of environmental epidemiology. Examples of applications in cancer epidemiology will be presented. Statistical challenges to linking spatial pattern of cancer to radiation exposure will be discussed.*

CO-ORGANIZERS



SRCE - University Computing Centre



HBMD - Croatian Biometric Society

ITI 2013 Conference Social Events

ITI WELCOME COCKTAIL – Monday, June 24, 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 25, 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 24-27, 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 24-27

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 sign up at the desk - 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 25, 9:00 a.m.

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

ITI 2013 Conference Social Events

ITI EXCURSION TO KONAVLE VALLEY – Wednesday, June 26, 15:00 – 19:00

Our first stop is **Sokol kula (Hawk Tower)** - imposing medieval fortress built on the mountain side. It has been renovated after 350 years and all the findings from the fortress will be on display. The archeological findings near the fortress date all the way back from around 2300 B. C. until the abandonment of the fortress in the 17th century.

The next stop is a **household in the Konavle valley**, where we'll see the characteristics of a village life in the past and in the present and sample local wine, brandy, cheese, prosciutto and othe household products.

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

*.Please dress casually
for the Excursion.*

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.



ITI CONFERENCE DINNER – Wednesday, June 26, 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



Monday, June 24

Monday, June 24

TIME	A ORLANDO	B SALON 5
9:15-10:00	Session 1A.  OPENING and WELCOME	
10:00-11:00	Session 2A. KEYNOTE LECTURE <p style="text-align: right;">Chair: Jasna Kuljis</p> <p>Ben Light <i>Digitally Mediated Social Networking Practices: A Focus on Connectedness and Disconnectedness</i></p>	
11:00-11:30	Welcome Drink (Sponsored by Hotel Croatia)	
11:30-12:30	Session 3A. KEYNOTE LECTURE: <p style="text-align: right;">Chair: Vesna Luzar-Stiffler</p> <p>Gualtieri, L., Akhtar, F. Y. <i>Cancer Patient Blogs: How Patients, Clinicians, and Researchers Learn from Rich Narratives of Illness</i></p>	
12:45-13:30	Session 4A. SPECIAL TOPIC: "RESEARCH AND EDUCATION USING MOBILE AND SOCIAL NETWORKING: WHEN, WHERE, AND HOW" <p style="text-align: right;">Chair: Vesna Luzar-Stiffler</p> <p>Apostolova Trpkovska, M., Abazi Bexheti, L. (Student paper) <i>Concerns and Strategies of Housing the Implementation of E-Medical Services in Macedonia</i></p> <p>Kadriu, A. <i>Discovering Value in Academic Social Networks: A Case Study in ResearchGate</i></p> <p>Golubić, K., Kurtović, G., Dobrenić, N. <i>Communication Strategy and Presence of the University Computing Centre (SRCE) on Internet Based Social Networks</i></p>	Session 4B. INFORMATION TECHNOLOGY IN BUSINESS AND GOVERNMENT <p style="text-align: right;">Chair: Diana Šimić</p> <p>Dukić, B., Ružić, D., Dukić, S. <i>E-Marketing Model of Humanitarian and Religious Organizations in Terms of Developed e-Business</i></p> <p>Baca, M., Cosic, J., Cosic, Z. <i>Forensic Analysis of Social Networks (Case Study)</i></p>
13:30-14:30	CONFERENCE LUNCH (Restaurant Konavle, Hotel Croatia)	
14:30-15:30	Coffee with Keynote Lecturer: B. Light	

Monday, June 24

Monday, June 24

Monday, June 24

Monday, June 24

TIME	A ORLANDO	B SALON 5
15:30-17:00	Session 5A. TUTORIAL Presenter: Lisa Gualtieri Title: "Mobile Health Design"	Session 5B. MODELING, SIMULATION AND OPTIMIZATION Chair: Želimir Kurtanjek Petrović, R., Dali, L., Mladenić, D. (Student paper) <i>Click Prediction in Mobile Display Advertising Based on HTML5 Features</i> Vuksanovic, B., Alhamdi, M. <i>ECG Based System for Arrhythmia Detection and Patient Identification</i> Hlupić, N., Beroš, I., Basch, D. <i>A Derivative-Free Algorithm for Solving Quasi-Linear Systems</i> SPECIAL TOPIC: "RESEARCH AND EDUCATION USING MOBILE AND SOCIAL NETWORKING: WHEN, WHERE, AND HOW" Picek, R., Grcic, M. <i>Evaluation of the Potential Use of m-learning in Higher Education</i>
17:00-17:15	COFFEE BREAK (Orlando Hall Terrace)	
17:15-18:15	Session 6A. TUTORIAL Presenter: Lisa Gualtieri Title: "Mobile Health Design"	
18:30-20:00	Session 7A. PANEL Moderator: Nenad Jukic "Research and Education Using Mobile and Social Networking: When, Where, and How" Panelists: <i>Ramesh Sharda, Robert Simon, Gaber Cerle, Damir Kalpić, Boris Jukic</i>	
21:00-22:30	 2013 Welcome Cocktail, 21:00-22:30 (light dinner included)	

Monday, June 24

Monday, June 24

Tuesday, June 25

Tuesday, June 25


TIME	A ORLANDO	B SALON 5
10:00-11:00	Session 8A. KEYNOTE LECTURE <p style="text-align: right;">Chair: Nenad Jukić</p> Sharda, R., Asamoah, D. A., Ponna, N. <i>Business Analytics: Research and Teaching Perspectives</i>	
11:00-11:30	COFFEEBREAK (Orlando Hall Terrace) Sponsored by Agencija za komercijalnu djelatnost d.o.o) 	
11:30-12:30	Session 9A. KEYNOTE LECTURE <p style="text-align: right;">Chair: Boris Jukić</p> Pope, J., Simon, R. <i>The Impact of Packet Fragmentation on Internet-of-Things Enabled Systems</i>	
12:45-13:30	Session 10A. BUSINESS INTELLIGENCE, INFORMATION SYSTEMS AND DATABASES <p style="text-align: right;">Chair: Damir Kalpić</p> Jukić, B., Jukić, N., Nestorov, S. <i>Framework for Integrating Process and Data Logic: Connecting UML Use Cases and ER Diagrams</i> Trad, A., Kalpić, D., Trad, H. <i>The Selection and Training Framework (STF) for Managers in (e-)Business Innovation Transformation Projects - The Background</i> Trad, A., Kalpić, D. <i>The Selection and Training Framework (STF) for Managers in (e-)Business Innovation Transformation Projects The Business Transformation Manager's Profile</i>	Session 10B. LANGUAGE TECHNOLOGIES <p style="text-align: right;">Chair: Božo Bekavac</p> Komiya, K., Abe, Y., Kotani, Y. <i>Query Expansion Using Mutual Information Between Words in Question and Its Answer</i> Agić, Ž., Bekavac, B. <i>Domain Dependence of Statistical Named Entity Recognition and Classification in Croatian Texts</i> Kadriu, A. <i>NLTK Tagger for Albanian Using Iterative Approach</i>
13:30-14:30	CONFERENCE LUNCH (Restaurant Konavle, Hotel Croatia)	
14:30-15:30	Coffee with Keynote Lecturers: R. Sharda, R. Simon	

Tuesday, June 25

Tuesday, June 25

Tuesday, June 25

Tuesday, June 25

TIME	A ORLANDO	B SALON 5
15:30-17:00	<p>Session 11A. WORKSHOP</p> <p>Presenter: Gaber Cerle Title: "VideoLectures - Next Generation Education?"</p>	<p>Session 11B. THEORY OF COMPUTING, COMPUTING METHODOLOGIES AND SOFTWARE ENGINEERING</p> <p>Chair: Robert Manger</p> <p>Newson, A., Counsell, S., Geddes, S. <i>Is there a Cliff-edge in Object-oriented Inheritance?</i></p> <p>Titarenko, L., Hebda, O., Barkalov, A. <i>Design of Moore Finite State Machine with Extended State Codes</i></p> <p>Prstačić, S., Žagar, M. <i>A Model for Web Application and Web Service Peer-to-Peer Hosting Network Architecture</i></p> <p>Ministr, J. <i>The Influence of Human Resources on the IT Service Management</i></p>
17:00-17:15	COFFEE BREAK (Orlando Hall Terrace)	
17:15-19:00	<p>Session 12A. RESCHEDULED PRESENTATIONS</p> <p>Chair:</p> <p>Švogor, I., Crnković, I., Vrček, N. <i>Multi-Criteria Software Component Allocation on a Heterogeneous Platform</i></p> <p>Vrček, N., Švogor, I., Vondra, P. <i>Social Network Analysis and Software Evolution: A Perspective Method for Software Architecture Analysis</i></p> <p>Delić, A., Grd, P., Gregurec, I. <i>Analysis of Communication of Croatian Faculties through Facebook - Part I</i></p> <p>Gulliver, S. R., Kent, S. <i>Higher Education: Understanding the Impact of Distance Learning Mode on User Information Assimilation and Satisfaction.</i></p>	
19:30-20:00		<p>Session 13B. IPC MEETING</p> <p><u>Chair: Vesna Lužar-Stiffler</u></p>
21:00-00:00	 2013 NIGHT CLUB PARTY (Night Bar Poseidon), 21:00	

Tuesday, June 25

Tuesday, June 25

Wednesday, June 26

Wednesday, June 26

TIME	A ORLANDO	B SALON 5
8:30-9:30	<p>Session 14A. HUMAN COMPUTER INTERACTION Chair: Jasna Kuljis</p> <p>Alhammad, M. M., Gulliver, S. R. (Student paper) <i>Context Relevant Persuasive Interaction and Design: Consideration of Human Factors Influencing B2C Persuasive Interaction</i></p> <p>Achilleos, A. P., Mettouris, C., Papadopoulos, G. A., Neureiter, K., Rappold, C., Moser, C., Tscheligi, M., Vajda, L., Tóth, A., Hanák, P., Jimenez, O., Smit, R. <i>Developing an Effective Social Presence System for Older Adults: The Connected Vitality Network</i></p> <p>Onorati, T., Malizia, A., Kuljis, J. <i>Transmeta Design: Adding Transparency and Meta-communication to Web Services Design</i></p> <p>Aylett, M., Vazquez-Alvarez, Y., Baillie, L. <i>Evaluating Speech Synthesis in a Mobile Context: Audio Presentation of Facebook, Twitter and RSS</i></p>	<p>Session 14B. KNOWLEDGE MANAGEMENT AND COLLABORATION SYSTEMS Chair: Radovan Vrana</p> <p>Tomašev, N., Leban, G., Mladenčić, D. (Student paper) <i>Exploiting Hubs for Self-Adaptive Secondary Re-Ranking in Bug Report Duplicate Detection</i></p> <p>Vrana, R. <i>Digital Repositories of Scientific Information at the Croatian Universities: Developing the Bridge Towards e-Science</i></p> <p>Velic, M., Grzinic, T., Padavic, I. <i>Wisdom of Crowds Algorithm for Stock Market Predictions</i></p>
10:00-11:00	<p>Session 15A. KEYNOTE LECTURE Chair: Zdenko Sonicki</p> <p>Vena, J. E., Wagner, S. E., Rathbun, S. L. <i>Applications of Geographic Information Systems and Geo-spatial Modeling in Environmental Epidemiology</i></p>	
11:00-11:30	<p>COFFEE BREAK (Orlando Hall Terrace) Sponsored by Optika kabel TV d.o.o.</p>	
11:30-12:30	<p>Session 16A. SPECIAL BIostatISTICS LECTURE: Chair: Vesna Luzar-Stiffler</p> <p>Hearne, L. B., Kelly, D., Vatsa, A., Mayham, W., Kazic, T. <i>Statistical Linkage across High Dimensional Observational Domains</i></p>	<p>Session 16B. TECHNOLOGY ENHANCED EDUCATION Chair: Keiichi Kaneko</p> <p>Kuzic, J., Mesaric, J. <i>Success Factors of Online Training</i></p> <p><i>Continuation -></i></p>

Wednesday, June 26

Wednesday, June 26

Wednesday, June 26

Wednesday, June 26

TIME	A ORLANDO	B SALON 5
11:30-12:30		<p>Session 16B. -continuation TECHNOLOGY ENHANCED EDUCATION Chair: Keiichi Kaneko</p> <p>Fetaji, M., Fetaji, B., Ebibi, M. <i>Analyses of Factors that Influence the Reliability of e- school Management Software System in High Schools in Macedonia</i></p> <p>Fetaji, M., Fetaji, B., Ajredini, A., Ebibi, M. <i>Devising a Model of Electronic School Management System Based on Web Services for Secondary Schools in Macedonia</i></p>
12:45-13:30	<p>Session 17A. DATA MINING, STATISTICS AND BIOMETRICS Chair: Leonard B. Hearne</p> <p>Žiha, K. <i>Statistical Variability vs. Probabilistic Uncertainty</i></p> <p>Stankov, E., Jovanov, M., Madevska Bogdanova, A. <i>Source Code Similarity Detection by Using Data Mining Methods</i></p> <p>Keka, I., Hamiti, M. <i>Load Profile Analyses Using R Language</i></p> <p>Stanić, M. <i>Continuous User Verification Based on Behavioral Biometrics Using Mouse Dynamics</i></p> <p>Tirea, M., Negru, V. <i>Stock Market Analysis - Strongest Performing Stocks Influence on an Evolutionary Market</i></p>	<p>Session 17B. TECHNOLOGY ENHANCED EDUCATION Chair: Keiichi Kaneko</p> <p>Ishikawa, Y., Hirai Y., Kaneko, K. <i>A Support System for Probability Learning Based on Scaffolding Approach</i></p> <p>Abazi Bexheti, L., Jajaga, E., Apostolova, M. <i>Online Testing Module in LMS</i></p> <p>INFORMATION TECHNOLOGY IN BUSINESS AND GOVERNMENT</p> <p>Ghanshala, K.K., Pant, D. <i>IT-Initiatives for Empowering Difficult Geographies: A Review</i></p>
13:30-14:30	CONFERENCE LUNCH (Restaurant Konavle, Hotel Croatia)	
15:00-24:00	EXCURSION (to Konavle, Hydroelectric Power Plant) AND CONFERENCE DINNER (Restaurant „Arsenal“, Dubrovnik)	

Wednesday, June 26

Wednesday, June 26

Thursday, June 27

Thursday, June 27

TIME	A ORLANDO	B SALON 5
8:45-9:45	<p>Session 18A.</p> <p>BIOSTAT SYMPOSIUM 2013 20th Meeting of Researchers in Biometrics / Statistics 18th School of Biometrics</p> <p>Chair: Anamarija Jazbec</p> <p>Invited Lecturer: John E. Vena Title: "Applications of Geographic Information Systems and Geo-spatial Modeling in Environmental Epidemiology"</p>	<p>Session 18B. POSTER SESSION</p> <p>Chair: Bekim Fetaji</p> <p>SPECIAL TOPIC: "RESEARCH AND EDUCATION USING MOBILE AND SOCIAL NETWORKING: WHEN, WHERE, AND HOW"</p> <p>Filipović, A. M., Kacian, D., Pleić, D. <i>International Repository of Higher Education Institutions, Alumni, and Projects in Occupational Safety and Health</i></p> <p>BUSINESS INTELLIGENCE, INFORMATION SYSTEMS AND DATABASES</p> <p>Borovina, Dž., Kovačević, S. <i>Database Audit System as an Effective Way of Improving the Overall Database Security</i></p> <p>Volner, R., Martinec, F. <i>Aviation Information Networks for Air Company</i></p> <p>Volner, R., Martinec, F., Volner, L. <i>Home System – Telemetry Management</i></p> <p>HUMAN COMPUTER INTERACTION</p> <p>Puks, R., Kirillov, Z. <i>Towards Better Adoption of HCI Methodologies by Technology Startups</i></p>
10:00-11:00	<p>Session 19A. SPECIAL LECTURE:</p> <p>Chair: Leonard B. Hearne</p> <p>Lecturer: Ray J. Paul Title: What sort of systems are healthcare systems?</p>	<p>Session 19B. POSTER SESSION</p> <p>Chair: Bekim Fetaji</p> <p>INFORMATION TECHNOLOGY IN BUSINESS AND GOVERNMENT</p> <p>Martinec, F., Volner, R. <i>Information Technology on the Airplane</i></p> <p>MODELING, SIMULATION AND OPTIMIZATION</p> <p>Kordos, A., Kucaba-Pietal, A., Kaczmariski, K. <i>Computer Simulation of Nanoflows in Chromatography Columns</i></p> <p>Romanowska, J., Zagula-Yavorska, M. <i>Numerical Modeling of Excess Gibbs Energy of Ternary Cu-Fe-Ni Alloys.</i></p> <p>Romanowska, J., Kotowski, S. <i>Modelling and Optimization of Thermodynamic Properties of Ternary Al-Ni-Hf Alloys.</i></p> <p><i>Continuation -></i></p>

Thursday, June 27

Thursday, June 27

Thursday, June 27

Thursday, June 27

TIME	A ORLANDO	B SALON 5
		Session 19B. <i>-continuation</i> Szczerba, P., Szumski, M., Kucaba-Pietal, A. <i>Virtual Reality in Planning IPCT Experiment</i>
11:00-11:30	COFFEE BREAK (Orlando Hall Terrace)	
11:30-12:30	Session 20A. BIOSTAT SYMPOSIUM 2013 20th Meeting of Researchers in Biometrics / Statistics 18th School of Biometrics Chair: Anamarija Jazbec Invited Lecturer: John E. Vena Title: "Applications of Geographic Information Systems and Geo-spatial Modeling in Environmental Epidemiology"	Session 20B. NETWORKING, GRIDS, MIDDLEWARE AND DISTRIBUTED PLATFORMS Chair: Damir Kalpić Anchev, N., Gusev, M., Ristov, S., Atanasovski, B. (Student paper) <i>Some Optimization Techniques of the Matrix Multiplication Algorithm</i> Simjanoska, M., Velkoski, G., Ristov, S., Gusev, M. (Student paper) <i>Does the Performance Scale the Same as the Cost in the Cloud</i> Velkoski, G., Ristov, S., Gusev, M. (Student paper) <i>Affinity-aware HPC Applications in Multichip and Multicore Multiprocessor</i> Tomić, D., Imamagić, E., Gjenero, L. <i>Towards New Energy Efficiency Limits of High Performance Clusters</i>
12:30-13:30	Session 21A. BIOSTAT SYMPOSIUM 2013 20th Meeting of Researchers in Biometrics / Statistics 18th School of Biometrics Chair: Anamarija Jazbec Invited Lecturer: John E. Vena Title: "Applications of Geographic Information Systems and Geo-spatial Modeling in Environmental Epidemiology"	Session 21B. NETWORKING, GRIDS, MIDDLEWARE AND DISTRIBUTED PLATFORMS Chair: Damir Kalpić Copie, A., Fortis, T.-F., Munteanu, V. I. <i>Benchmarking Cloud Databases for the Requirements of the Internet of Things</i> Voras, I., Orlic, M., Mihaljevic, B. <i>The Effects of Maturation of the Cloud Computing Market on Open Source Cloud Computing Infrastructure Projects</i>
13:30-14:30	CONFERENCE LUNCH (Restaurant Konavle, Hotel Croatia)	
14:30-15:30	Coffee with Keynote and Special Lecturers: J. E. Vena, L. Hearne, T. Kazic, R. Paul	
15:30-16:00	Session 22A. CLOSING and AWARDS Chair: Vesna Luzar-Stiffler	

Thursday, June 27

Thursday, June 27

NOTES

ITI 2013 SPONSORS

ITI Conference is organized with financial support of



Ministry of Science, Education and Sports, Republic of Croatia

SILVER SPONSORS



Agencija za komercijalnu djelatnost d.o.o.



Optika kabel TV d.o.o.

SPONSORS



INTERNET LINK SPONSOR



STUDENT AWARD SPONSOR



University of Zagreb
University Computing Centre

ORGANIZER



University Computing Centre
University Of Zagreb

UNDER THE AUSPICES OF



Croatian Academy of Sciences and Arts

TECHNICAL CO-SPONSOR



IEEE Region 8
IEEE Croatia Section
IEEE Croatia Computer Chapter

SPONSOR



Ministry of Science, Education and Sports,
Republic of Croatia

PROGRAM CO-ORGANIZERS

Croatian Biometric Society (HBMD)

Topic: Data Mining, Statistics and Biometrics

Croatian Society for Simulation Modelling (CROSSIM)

Topic: Modeling, Simulation and Optimization

CO-OPERATING INSTITUTIONS

ARGESIM, Technical University Vienna

Athens University of Economics and Business

Department of Computer Science,

North Carolina State University

Department of Computer Science and Engineering,

Slovak Technical University, Bratislava

Department of Information Systems and Computing,

Brunel University, West London, UK

Department of Statistics and Operations Research,

Polytechnic University of Catalonia

Faculty of Electrical Engineering and Computing,

University of Zagreb

John von Neumann Computer Society, Budapest

Jozef Stefan Institute, Ljubljana

ITI 2013 Committees

Chair:

Zoran Bekic

Vice-Chair:

Iva Jarec

Secretary:

Zeljka Batic

Members:

Natasa Dobrenic

Bruna Földing

Igor Lukšić

David Mecner

Dubravko Penezić

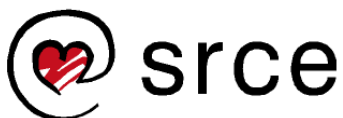
Jasmina Plavac

**Technical Staff:**

Robert Maltaric

Tomislav Maric

Suzana Kikic



University of Zagreb

University Computing Centre - SRCE

Josipa Marohnica 5

HR-10000 Zagreb, CROATIA

Tel.: +385 1 616 55 95 / +385 1 616 51 89

Fax: +385 1 616 55 91

E-mail: iti@srce.hr

URL: <http://iti.srce.unizg.hr/>

ITI 2013 ACKNOWLEDGEMENTS

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

June 2013

ITI Organizing Committee
University Computing Centre - SRCE

ITI 2013 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:

Hotel Croatia Cavtat, Frankopanska 10, 20210 Cavtat-Dubrovnik, Croatia, 20000 Dubrovnik

Tel: +385 20 430 830 Fax: +385 20 430 835, e-mail: reservations@alh.hr

Web: <http://www.adriaticluxuryhotels.com/en/hotel-croatia-dubrovnik-cavtat/>

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

