



**Technical University of Sofia  
Faculty of Computer Systems and Control**



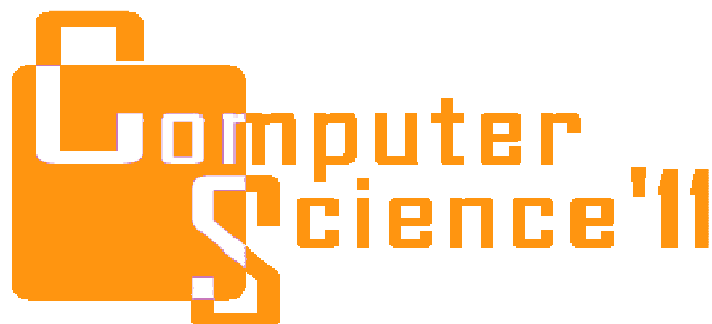
**University for Information Science and Technology  
"St. Paul The Apostle", Ohrid, R. Macedonia**



**National Science Fund**

# **P R O G R A M**

**Sixth International Scientific Conference**



**WORKSHOP ON  
Supercomputer Architectures and  
Applications**

**Ohrid, Macedonia  
01 - 03 September 2011**

## CONFERENCE CHAIRS

### **Plamenka Borovska,**

Technical University of Sofia, Bulgaria

### **Danco Davcev,**

University for Information Science and Technology "St. Paul The Apostle", Ohrid, R. Macedonia

### **Vice Chairs**

**Ognian Nakov,** Technical University of Sofia

**Etienne Schneider,** UIST "St. Paul The Apostle", Ohrid, R. Macedonia

<b>INTERNATIONAL ORGANIZING COMMITTEE</b>	<b>INTERNATIONAL PROGRAM COMMITTEE</b>
Etienne Schneider, UIST "St. Paul The Apostle", Ohrid, R. Macedonia	Marin Hristov, Technical University of Sofia, Bulgaria
Dragi Kimovski, UIST "St. Paul The Apostle", Ohrid, R. Macedonia	Blagoja Samakoski, UIST "St. Paul The Apostle", Ohrid, R. Macedonia
Atanas Hristov, UIST "St. Paul The Apostle", Ohrid, R. Macedonia	Georg Paul, Otto-Von-Guericke University, Germany
Mariana Goranova, Technical University of Sofia, Bulgaria	John Galletly, American University in Bulgaria
Tasho Tashev, Technical University of Sofia, Bulgaria	Wolfgang Karl, University of Karlsruhe, Germany
Valeri Mladenov, Technical University of Sofia, Bulgaria	Baki Koyngu, Ankara University, Turkey
Stoyan Bonev, American University in Bulgaria	Betim Cico, Polytechnic University of Tirana, Albania
Georgi Popov, Technical University of Sofia, Bulgaria	Milena Lazarova, Technical University of Sofia, Bulgaria
Veska Gancheva, Technical University of Sofia, Bulgaria	Ivan Momchev, Technical University of Sofia, Bulgaria
Daniela Gotseva, Technical University of Sofia, Bulgaria	Hristo Hristov, Technical University of Sofia, Bulgaria
Adelina Aleksieva-Petrova, Technical University of Sofia, Bulgaria	Kamen Filyov, Technical University of Sofia, Bulgaria
Georgi Zapryanov, Technical University of Sofia, Bulgaria	Leandar Litov, University of Sofia, Bulgaria
Kiril Mechkov, Technical University of Sofia, Bulgaria	Lyudmil Dakovski, Bulgarian Academy of Sciences, Bulgaria
Desislava Ivanova, Technical University of Sofia, Bulgaria	Petko Stoyanov, Technical University of Sofia, Bulgaria
Iveta Ilieva, Technical University of Sofia, Bulgaria	Stoyan Maleshkov, Technical University of Sofia, Bulgaria
Elizabet Mihailova, Technical University of Sofia, Bulgaria	Stoicho Stoichev, Technical University of Sofia, Bulgaria
Etienne Schneider, UIST "St. Paul The Apostle", Ohrid, R. Macedonia	Stoyan Markov, Bulgarian Academy of Sciences, Bulgaria

## TOPICS

- ◆ Workshop on Supercomputer Architectures and Applications
- ◆ Advanced Algorithms and Complexity Theory
- ◆ Computational Intelligence
- ◆ Information Management
- ◆ Programming Languages
- ◆ Computer Systems and Networks
- ◆ Software Systems and Methodologies
- ◆ Information Technologies

THURSDAY, September 1<sup>st</sup>, 2011

9:00 – 12:00

Registration

10:00 – 11:00

## Opening Ceremony

*Conference Hall 1*

11:00 – 13:00

## Plenary Session

Chair: *Plamenka Borovska*

*Conference Hall 1*

**1. Acad. Prof. Ljupco Kocarev**

*Influence Spreading in Social Networks*

**2. Prof. Vladimir Getov**

*Component-Oriented Software Development and Execution for Extreme-Scale Computing*

**3. Prof. Svetozar Margenov**

*Supercomputing Applications: Scalable Numerical Methods, Algorithms and Software*

**4. Assoc. Prof. Margarita Todorova**

*Survey on Advanced e-Learning Technologies*

13:00 – 13:30

Lunch break

## Plenary Session Speakers



**Academician Professor Ljupco Kocarev** is a member of the Department of Mathematical and Technical Sciences at the Macedonian Academy of Science and Arts. He has started his academic career at the Electro-Technical Faculty in Skopje, where he was working for twelve years. Starting from 1998 he was working as a researcher/scientist at the University of California in San Diego. In 2007 he has returned in Macedonia and started to work at the Faculty of Electrical Engineering and Information Technologies as a Full Professor in IT. Prof. Kocarev has published more than 100 scientific papers, 22 of them in IEEE journals. He is holding six patents in the EU and USA. The main areas of his research are: computer networks, complex networks, coding, cryptography, bio-informatics and computational biology.



**Professor Vladimir Getov** graduated with distinction from the Technical University of Sofia (Bulgaria) in 1975 and earned his Ph.D. in Computer Science from the Bulgarian Academy of Sciences in 1980. As a Senior Research Fellow he spent several years leading both R&D and academic research projects in Bulgaria. In 1989 he moved to England where he joined the Concurrent Computations Group at the University of Southampton, led at that time by Professor Tony Hey. Since 1995, Vladimir has been an academic staff member at the University of Westminster in London where he was awarded the titles Reader (1999) and Professor (2001). Vladimir Getov's research interests include performance analysis and engineering, parallel and distributed architectures, cloud and services computing, component-oriented design of extreme-scale platforms and applications, autonomous computing, message-passing environments, and hybrid programming models and paradigms. He has been leading the Distributed and Intelligent Systems Research Group at the University of Westminster in London since 1996. Between 2003 and 2009 Vladimir served as School research director and since December 2009 he has become coordinator of the Research Cluster on Parallel and Distributed Computing in the School of Electronics and Computer Science. His current research is focusing on a feasibility study into smart cloud infrastructures, supported by a Faculty Award from IBM Corporation.



**Professor Svetozar Margenov** is a director of the Institute of Information and Communication Technologies, Bulgarian Academy of Sciences (IICT - BAS) and a head of the Department of Scientific Computing at IICT - BAS. He is currently the coordinator of the Bulgarian Center of Excellence on Supercomputing Applications - SuperCA++. His research interests include parallel architectures, parallel numerical methods and algorithms, optimal multilevel iterative methods, large scale scientific computing, supercomputing applications. He has published two monographs and more than 140 scientific papers. Prof. Margenov is a member of the editorial boards of the following international journals: Numerical Linear Algebra with Applications, Scalable Computing: Practice and Experience, Journal of Numerical Analysis & Modeling - Series B.



**Associate Professor Margarita Todorova**, Doctor in the field of Computer Science. She is head of Computer System and Technologies Department, Faculty of Science, St.Cyril and st. Methodius University of Veliko Turnovo, Bulgaria. Author of more than 60 papers at scientific conferences and about 20 books in the field of computing, multimedia computer systems, e-learning, multimedia technologies in education. She is project manager of different European projects – Grundtvig, Leonardo da Vinchi, and Socrates Erasmus. Member of: Union of Scholars and Scientists - Veliko Turnovo, Bulgaria; Management Committee of the Association of Spread of Knowledge "Missal"; Association of Professors in the field of Computing in Bulgaria; Technical Union in BG; Management Committee of Association of Informatics and Automatics; NGO "Center of European Integration".

**THURSDAY, September 1<sup>st</sup>, 2011**

**WORKSHOP ON  
Supercomputer Architectures and Applications**

**13:30 – 15:30**

***Conference Hall 1***

Chair: ***Vladimir Getov***

Vice-chair: ***Veska Gancheva***

Secretary: ***Nikolay Landzhev***

1. The PRACE Project and Using the High Performance Computing for Industrial Applications  
*Krassimir Georgiev*
2. Generalized Simulation Model of a Switch for High-Speed Interconnection Networks  
*Plamenka Borovska, Desislava Ivanova, Kamen Ivanov, Georgi Georgiev*
3. FPGA - Based Switch Designed for Interprocessor Network Communications  
*Peter Manoilov, Teodor Najdenov*
4. Comparative Analysis of Communication Performance Evaluation for Butterfly Bidirectional Multistage Interconnection Network Topology with Routing Table and Destination Tag Routing  
*Plamenka Borovska, Desislava Ivanova, Venelina Ianakieva, Vladislav Mitov, Halil Alkaf*
5. Parallel CUDA Implementation of the Lattice Boltzmann Methods  
*Nikolay Landzhev, Plamenka Borovska*
6. Performance Evaluation of NoC for Homogeneous MPSoC with OMNeT++  
*Plamenka Borovska, Ognian Nakov, Desislava Ivanova, George Georgiev, Kamen Ivanov*

**15:30 – 15:45 Break**

**THURSDAY, September 1<sup>st</sup>, 2011**

**SECTION 1  
ADVANCED ALGORITHMS AND COMPLEXITY THEORY**

**13:30 – 15:30**

***Conference Hall 2***

Chair: ***Vladimir Lazarov***

Vice-chair: ***Adelina Aleksieva-Petrova***

Secretary: ***Iva Nikolova***

1. A Novel Approach of Implementing an Optimal k-Means Plus Plus Algorithm for Scalar Data  
*Angel Sinigersky, Vladimir Daskalov, Chavdar Georgiev, Stanislav Dimov*
2. Depth Estimation Based on Stereopsis  
*Milena Lazarova, Stanimir Penkov, Iva Nikolova*
3. A Combined Algorithm for Optimization of Biotechnological Processes  
*Mitko Petrov, Tatiana Ilkova*
4. Period of the Sequences Produced by the p-Ary Generalized Self-Shrinking Generator  
*Antoniya Tasheva, Zhaneta Tasheva*
5. A New Genetic Algorithm Approach for Solving Knapsack Problem  
*Milena Karova, Ivaylo Penev, Rumen Ivanov, Dragomir Balinov*
6. Genetic Algorithm for Scheduling Parallel Jobs in a Class of Financial Systems  
*Milena Karova, Stanislav Stoyanov, Ivaylo Penev*
7. A Study of Automatic White Balance Algorithms for Digital Still Cameras  
*Georgi Zapryanov, Dobromira Ivanova, Iva Nikolova*
8. Assessment of Real Aperture Imaging Methods for Scene Depth Recovery Based on Defocus Blur Analysis  
*Mavrodi Karamihalev, Iva Nikolova, Georgi Zapryanov*

**15:30 – 15:45 Break**

THURSDAY, September 1<sup>st</sup>, 2011

## SECTION 2 COMPUTATIONAL INTELLIGENCE

15:45 – 17:00

### *Conference Hall 1*

Chair: *Daniela Gotseva*

Vice-chair: *Roumen Trifonov*

Secretary: *Diana Grigorova*

1. Investigation of the Influence of Virtual Lifelike Agents within an Interactive Game  
*Kostadin Nevrokopliev, Dilyana Budakova*
2. A Rule Based Approach for Zero Pronoun Resolution in Bulgarian  
*Diana Grigorova*
3. Smart System Implementation for Growing Spirulina Maxima Algae  
*Daniela Gotseva, Maryana Gousheva, Roumen Trifonov, Stephan Vassilev*
4. Influence of the Image Resolution to the Parameter of the Water Flow Algorithm  
*Darko Brodić, Dragan Milivojević, Visa Tasić*
5. Novel Consensus Approach for Protein Active Sites Detection  
*Goran Piskachev, Georgina Mirceva, Danco Davcev*

**THURSDAY, September 1<sup>st</sup>, 2011**

## **SECTION 3 INFORMATION MANAGEMENT**

**15:45 – 16:45**

### ***Conference Hall 2***

Chair: ***Valin Karagiozov***

Vice-chair: ***Lyudmilla Stoyanova***

Secretary: ***Atanas Hristov***

1. Project Management and Controlling During the Lifecycle of Process Technology Plants by Means of PDM  
*Roman Pethe, Georg Paul, Rolf Paul*
2. Storing Data of Ontology-Based Dynamic Applications  
*Samuil Nikolov*
3. Accreditation - a Tale of Two Systems  
*Dimitar Christozov, John Galletly, Lucia Miree, Stoyan Bonev, Valin Karagiozov*
4. Dynamic System Optimization by Design: A Performance Metrics and e-Learning Combined Approach  
*Vassili Loumos, Vladimir Lazarov*

## **SECTION 4 PROGRAMMING LANGUAGES**

**16:45 – 17:45**

### ***Conference Hall 2***

Chair: ***Stoyan Bonev***

Vice-chair: ***Daniela Minkovska***

Secretary: ***Vasilka Lyubenova***

1. Understanding of Testability of Java Projects  
*Elinda Kajo Mece, Hakik Paci, Evis Trandafili*
2. Investigating the Opportunities for Hardware Realization of Transfer Functions  
*Krasimira Filipova, Vladimir Yankov, Filip Filipov, Yordan Krlev, Tzvetomir Dimov*
3. Comparing Alternate Exception Handling Facilities in C++  
*Stoyan Bonev*
4. A Multi-paradigm Language Prototype Based on Object Oriented Programming  
*Valeri Bogdanov, Ilka Serafimova*

**THURSDAY, September 1<sup>st</sup>, 2011**

## **SECTION 5 COMPUTER SYSTEMS AND NETWORKS**

**13:30 – 15:30 Session 1**

***Conference Hall 3***

Chair: ***Valentin Mollov***

Vice-chair: ***Sergey Nedev***

Secretary: ***Miroslav Petrov***

1. Computer Control System for Processes in Milk Processing by Ultrasound  
*Raycho Ilarionov, Ivan Simeonov, Hristo Ibrishimov, Hristo Kilifarev, Plamenka Borovska, Desislava Ivanova, Petar Panayotov, Nikolay Shopov, Vladimira Ganchovska, Petya Boyanova*
2. Hard Disk Drive Low Level Format  
*Sergey Nedev*
3. Automated Test Equipment Architecture Types  
*Pavlinka Radovska*
4. Some Trends in Computer Memories Development  
*Valentin Mollov*
5. File Security Improvement Using Hardware Protection Devices in Network Environment  
*Valentin Mollov, Yancho Kolev*
6. Comparison and Analysis of NoC Simulators as a Tool for Researches  
*Georgi Todorov, Teodor Kalushkov, Hristofor Ivanov*
7. Design of Infrastructure-Based Wireless Mesh Network  
*Hristofor Ivanov, Miroslav Galabov, Teodor Kalushkov*
8. A Comparative Analysis of Stationary Wavelet Transform and Repagularity Wavelet Transform in Image Recognition  
*Miroslav Petrov, Margarita Todorova, Plamenka Borovska*

**15:30 – 15:45 Break**

**THURSDAY, September 1<sup>st</sup>, 2011**

**SECTION 5  
COMPUTER SYSTEMS AND NETWORKS**

**15:45 – 17:45 Session 2**

***Conference Hall 3***

Chair: ***George Popov***

Vice-chair: ***Elior Vila***

Secretary: ***Cyril Mechkov***

1. A Flexible and Expandable System on Chip Based on Double-Core Microprocessor  
*Peter Manoilov, Teodor Najdenov*
2. Algorithm for Critical Resources Planning in Multiprogramming Systems  
*George Popov, Roumen Trifonov*
3. Revealing the Basic Ideas Behind ECL Gates by Heuristic Means  
*Cyril Mechkov*
4. Investigating the Operation of ECL Gates by Heuristic Tools  
*Cyril Mechkov*
5. LabVIEW – Integrated Environment for Studying Hardware Subjects by Students on Computer Systems and Technologies  
*Yulka Petkova, Velina Stanachkova*
6. TPM versus PUFs for Device Authentication  
*Elior Vila*
7. The Evaluation of Network Performance and CPU Utilization During the Live Migration.  
*Igli Tafaj, Elinda Kajo Mece, Hakik Paci, Ilir Shinko, Aleksandër Xhuvani*

**FRIDAY, September 2<sup>nd</sup>, 2011**

**SECTION 6  
SOFTWARE SYSTEMS AND METHODOLOGIES**

**09:00 – 11:00 Session 1**

***Conference Hall 1***

Chair: ***Juliana Georgieva***

Vice-chair: ***Anna Rozeva***

Secretary: ***Tanya Georgieva***

1. ATPG Systems for Research and Educational Purposes  
*Dimitar Lazarevski*
2. The Integrated Environment for E-Documents Exchange Presented by the Reference Model for Applied Architecture  
*Roumen Trifonov, Daniela Gotseva, Sergey Nedev*
3. Building minimized RTAI for eBox 2300  
*Vladimir Germanov, Daniela Gotseva*
4. Optimization of Multithreaded Programs in CUDA C Software Architectures  
*Kiril Atanasov, Todor Marinov, Irina Dimcheva*
5. Contemporary Methodologies for Software Development Process Organization and Technology  
*Iveta Ilieva*
6. Performance Evaluation of Heterogeneous Architectures with GPU in OpenCL Environment  
*Dimitar Gernevski, Maria Marinova, Vladimir Lazarov*
7. An Approach to Object Oriented Database Perspective  
*Daniela Gotseva, Loie Naser Mahmud Nimrawi*
8. Study Time Access to Data in Heterogeneous Databases  
*Ivan Stankov*

**11:00 – 11:30 Break**

FRIDAY, September 2<sup>nd</sup>, 2011

## SECTION 6 SOFTWARE SYSTEMS AND METHODOLOGIES

11:30 – 13:30 Session 2

*Conference Hall 1*

Chair: *Boriana Deliyska*

Vice-chair: *Milen Petrov*

Secretary: *Ani Kocheva*

1. A Performance Evaluation of Mobile Ajax Application  
*Elinda Kajo Mece, Nelda Kote, Igli Tafa*
2. Dynamic Visual Clustering Using Bloom Effect  
*Desislava Hubanova, Haralambi Haralambiev, Milena Lazarova, Stanimir Boychev*
3. Toward Full Protection of Web Applications Based on Aspect Oriented Programming  
*Elinda Kajo Mece, Lorena Kodra*
4. XML Format for Knowledge Representation via Factor Graphs  
*Irina Nikolova*
5. Computer Based Virtual Instrument for Weight Measurement  
*Nikolay Gourov, Bozhidar Dzhudzhev, Tasho Tashev*
6. eduPUB - Architecture for Educational Publishing of Learning Achievements  
*Milen Petrov*
7. Investment Risk Management and Portfolio Optimization: Models, Methods and Software Systems  
*Milena Lazarova, Plamenka Borovska, Haralambos Dokames, Dgnyan Nakov*
9. Dynamic Conflict Resolution in Oracle Multimaster Replication  
*Hakik Paci, Elinda Kajo Mece, Igli Tafa, Anida Paci, Aleksander Xhuvani*

**FRIDAY, September 2<sup>nd</sup>, 2011**

**SECTION 6  
SOFTWARE SYSTEMS AND METHODOLOGIES**

**11:30 – 13:30 Session 3**

***Conference Hall 3***

Chair: ***John Galletly***

Vice-chair: ***Daniela Minkovska***

Secretary: ***Ivan Stankov***

1. Application of Metadynamics for Investigation of Human Interferon Gamma Mutants  
*Peicho Petkov, Elena Lilkova, Petko Petkov, Nevena Ilieva, Leandar Litov*
2. Investigation of Binding Affinity of hIFN-Gamma Mutated Forms with the Rosetta Suite of Programs  
*Damyan Grancharov, Peicho Petkov, Elena Lilkova, Nevena Ilieva, Leandar Litov*
3. Videoconferencing Educational System – QoE Analysis  
*Danco Davcev, Vladimir Trajkovic, Zdravko Stafilov, Toni Malinovski, Georgina Mirceva*
4. Mobile Banking Services – Financial Brokerage Service  
*Danco Davcev, Natasha Anastasova*
5. Development of Virtual Storage System  
*Atanas Hristov, Dragi Kimovski*
6. Development of Hybrid MPI/CUDA Based Cluster for Educational Purposes  
*Dragi Kimovski, Atanas Hristov*
7. News Folder – a Semantic Web-based Application  
*Mirela Spasova, John Galletly*
8. Methods of Knowledge Assessment in Modern Adaptive Educational Systems  
*Daniela Minkovska*

**FRIDAY, September 2<sup>nd</sup>, 2011**

## **SECTION 7 INFORMATION TECHNOLOGIES**

**9:00 – 11:00 Session 1**

***Conference Hall 2***

Chair: ***Peter Manoilov***

Vice-chair: ***Adelina Aleksieva-Petrova***

Secretary: ***Ralica Peycheva***

1. Game and Learner Ontology Model  
*Adelina Aleksieva-Petrova, Milen Petrov, Boyan Bontchev*
2. Agent-Based Architecture for Web Searching  
*Ognian Nakov, Adelina Aleksieva-Petrova, Maxim Nankov, Petros Georgonikos*
3. Personal Improve of Software Development Using PSP Methods  
*Adelina Aleksieva-Petrova*
4. Visualization Methods and Tools for Influenza Virus Investigation  
*Plamenka Borovska, Ivailo Georgiev*
5. Thesaurus and Domain Ontology of Ecoinformatics  
*Boryana Deliyiska, George Manoilov, Peter Manoilov*
6. Information technology, e-learning and web 2.0 tools as a means of training and education and the new internet platform for science education "Scientix"  
*Tsetsa Hristova*
7. Adding a New site in an Oracle Multimaster Replication without Quiescing Database Connections  
*Hakik Paci, Anida Paci, Igli Tafa, Elinda Kajo Mece, Aleksander Xhuvani*
8. Practicing of Lab Exercises at the Laboratory of Applied Electronics and Computer Engineering  
*Viša Tasić, Darko Brodić, Dragan Milivojević, Marijana Pavlov*

**11:00 – 11:30 Break**

**FRIDAY, September 2<sup>nd</sup>, 2011**

**SECTION 7  
INFORMATION TECHNOLOGIES**

**11:30 – 13:30 Session 2**

*Conference Hall 2*

Chair: *Todorka Dimitrova*

Vice-chair: *Veska Gancheva*

Secretary: *Dragi Kimovski*

1. Applications of Chroma Keys  
*Ivanka Valova*
2. Cloud-Based Data Storage and Analysis  
*Todorka Dimitrova, Elena Kalcheva-Yovkova*
3. Specific Information Security Problems for E-Government Applications  
*Raumen Trifonov, George Popov, Sergey Nedev*
4. Mining Model for Unstructured Data  
*Anna Rozeva*
5. Web Portal for Access and Performance of Parallel Program Implementations on a Heterogeneous Compact Computer Cluster  
*Plamenka Borovska, Ivailo Georgiev, Hristo Mitev, Tasho Tashev*
6. Parallel Sequence Alignment of Human Interferon Gamma on Heterogeneous Compact Computer Cluster  
*Plamenka Borovska, Veska Gancheva*
7. Database Server Optimization and Analysis  
*Ognian Nakov, Daniela Gotseva, Veska Gancheva*

**FRIDAY, September 2<sup>nd</sup>, 2011**

**SECTION 7  
INFORMATION TECHNOLOGIES**

**09:00 – 11:00 Session 3**

***Conference Hall 2***

Chair: ***Mariana Goranova***

Vice-chair: ***Lyudmilla Stoyanova***

Secretar: ***Antoniya Tasheva***

1. Implementing 3D Warping Methos in Wavelet Domain  
*Indrit Enesi, Elma Zanaj, Betim Çiço*
2. eScience: Challenges  
*Mariana Goranova*
3. Security Decision Service Composition in SOA  
*Juliana Georgieva, Mariana Goranova*
4. Energy Efficient Tracking in Sensor Networks  
*Elma Zanaj, Indrit Enesi*
5. Service Oriented Architecture and Education  
*Lyudmilla Stoyanova*
6. Acquisition and Processing Data in Sensor Networks  
*Elma Zanaj, Indrit Enesi*
7. The Increase of Network Lifetime by Implementing the Fuzzy Logic in Wireless Sensor Networks  
*Indrit Enesi, Elma Zanaj*
8. Localized Learning Objects Discovery and Exchange  
*Zoran Zdravev, Margita Kon Popovska, Jovan Pehcevski*

**19:30**

**Closing Ceremony & Best Paper Awards**

**Official Dinner**

## Conference TimeTable

Time	Place		
	Conference Hall 1	Conference Hall 2	Conference Hall 3
<b>THURSDAY, September 1<sup>th</sup> , 2011</b>			
9:00 – 12:00	<b>REGISTRATION</b>		
10:00 – 13:00	<b>Opening Ceremony &amp; Plenary Session Conference Hall 1</b>		
13:00 – 13:30	<b>Lunch break</b>		
13:30 – 15:30	<i><b>Workshop on Supercomputer Architectures and Applications</b></i>	<b><u>Section 1</u> Advanced Algorithms and Complexity Theory</b>	<b><u>Section 5</u> Computer Systems and Networks Session 1</b>
15:30 – 15:45	<b>Coffee Break</b>		
15:45 – 16:45	<b><u>Section 2</u> Computational Intelligence</b>	<b><u>Section 3</u> Information Management</b>	<b><u>Section 5</u> Computer Systems and Networks Session 2</b>
16:45 – 17:45		<b><u>Section 4</u> Programming Languages</b>	
<b>FRIDAY, September 2<sup>nd</sup> , 2011</b>			
9:00 – 11:00	<b><u>Section 6</u> Software Systems and Methodologies Session 1</b>	<b><u>Section 7</u> Information Technologies Session 1</b>	<b><u>Section 7</u> Information Technologies Session 3</b>
11:00 – 11:30	<b>Coffee Break</b>		
11:30 – 13:30	<b><u>Section 6</u> Software Systems and Methodologies Session 2</b>	<b><u>Section 7</u> Information Technologies Session 2</b>	<b><u>Section 6</u> Software Systems and Methodologies Session 3</b>
19:30	<b>Closing Ceremony &amp; Best Paper Awards Official Dinner</b>		