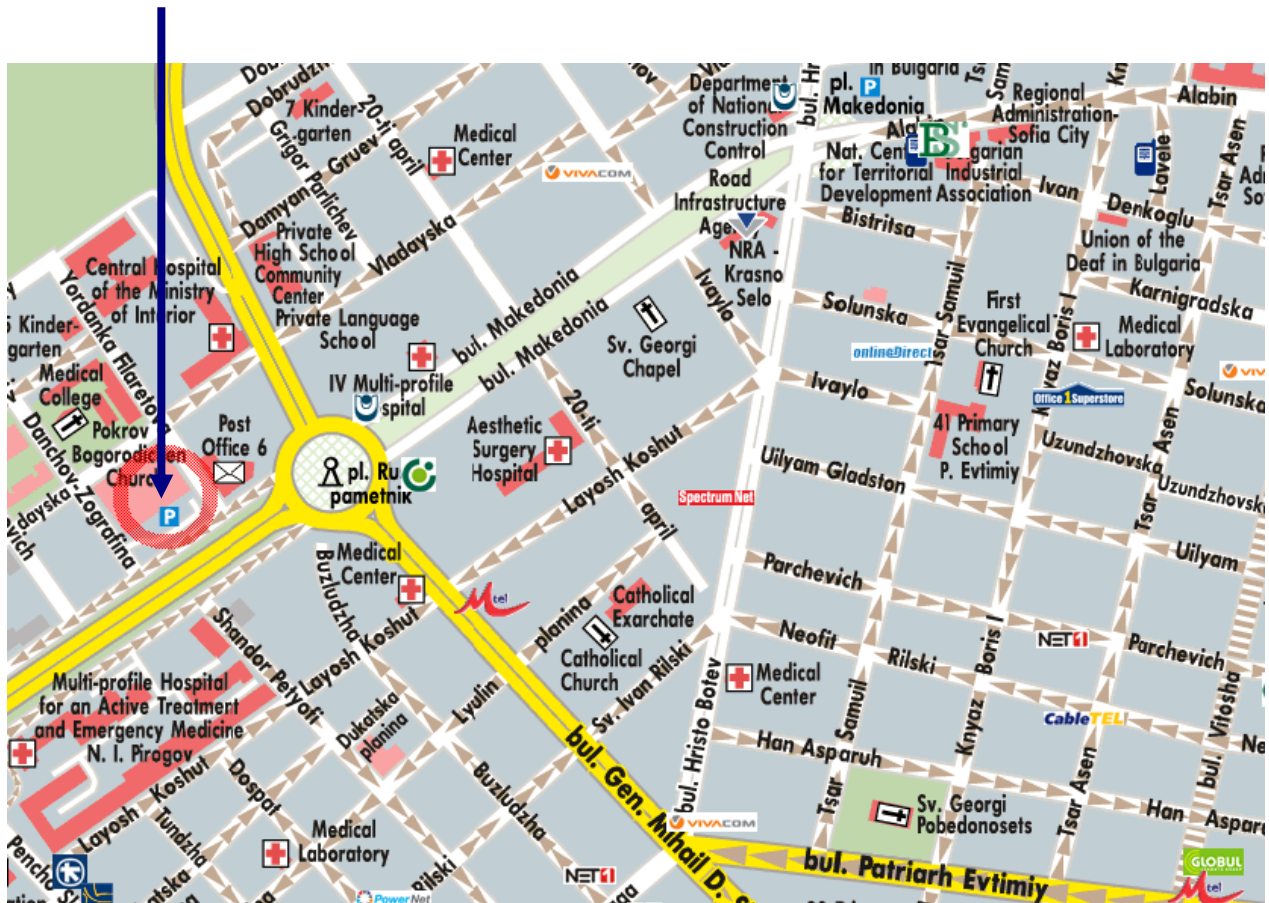


## HOTEL " RODINA "

Sofia 1606  
8 blv. "Totleben"



## CONGRESS CENTRE

### HALL 1



### HALL 2



### HALL 3



### HALL "STRUMA"



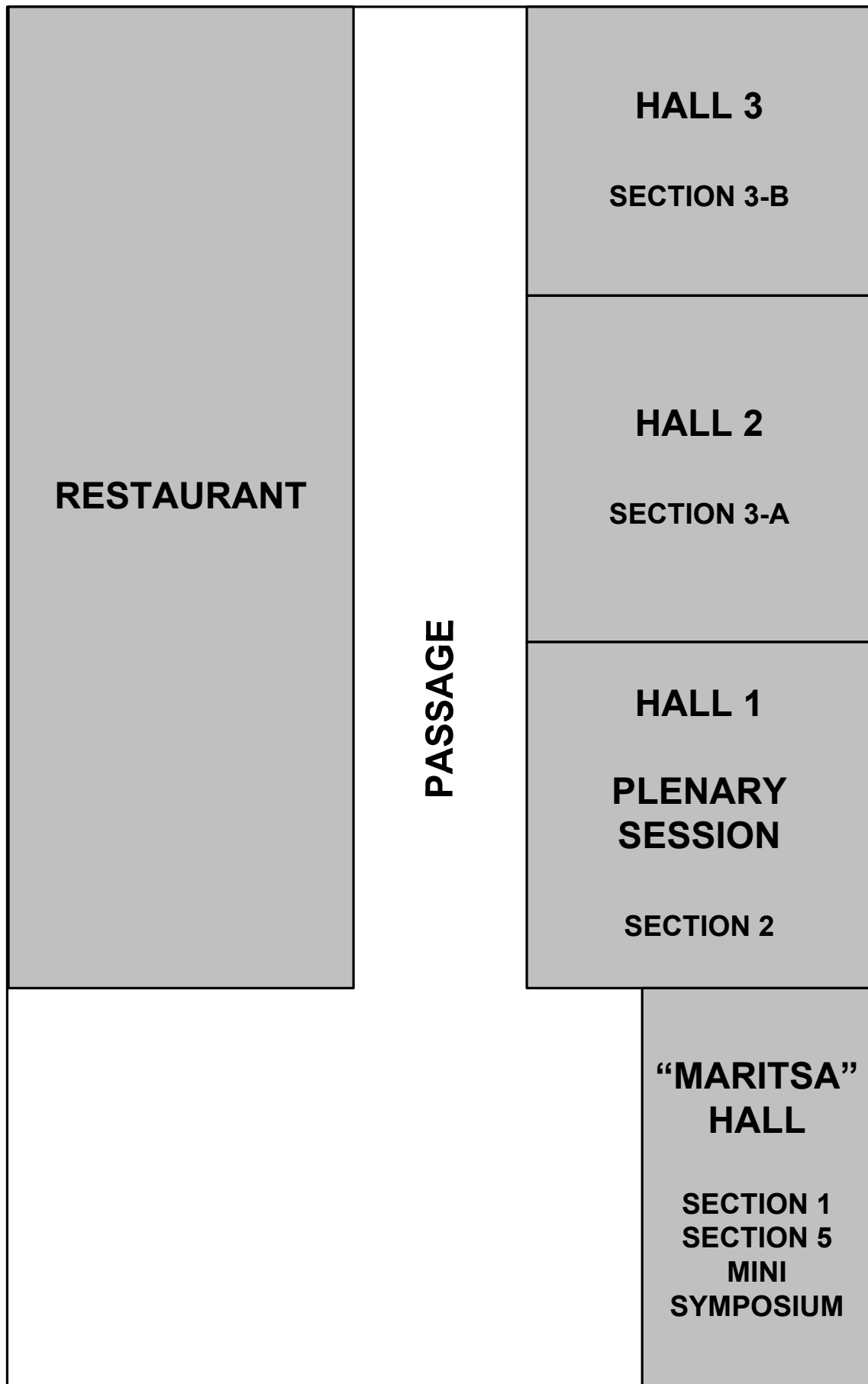
### HALL "MESTA"

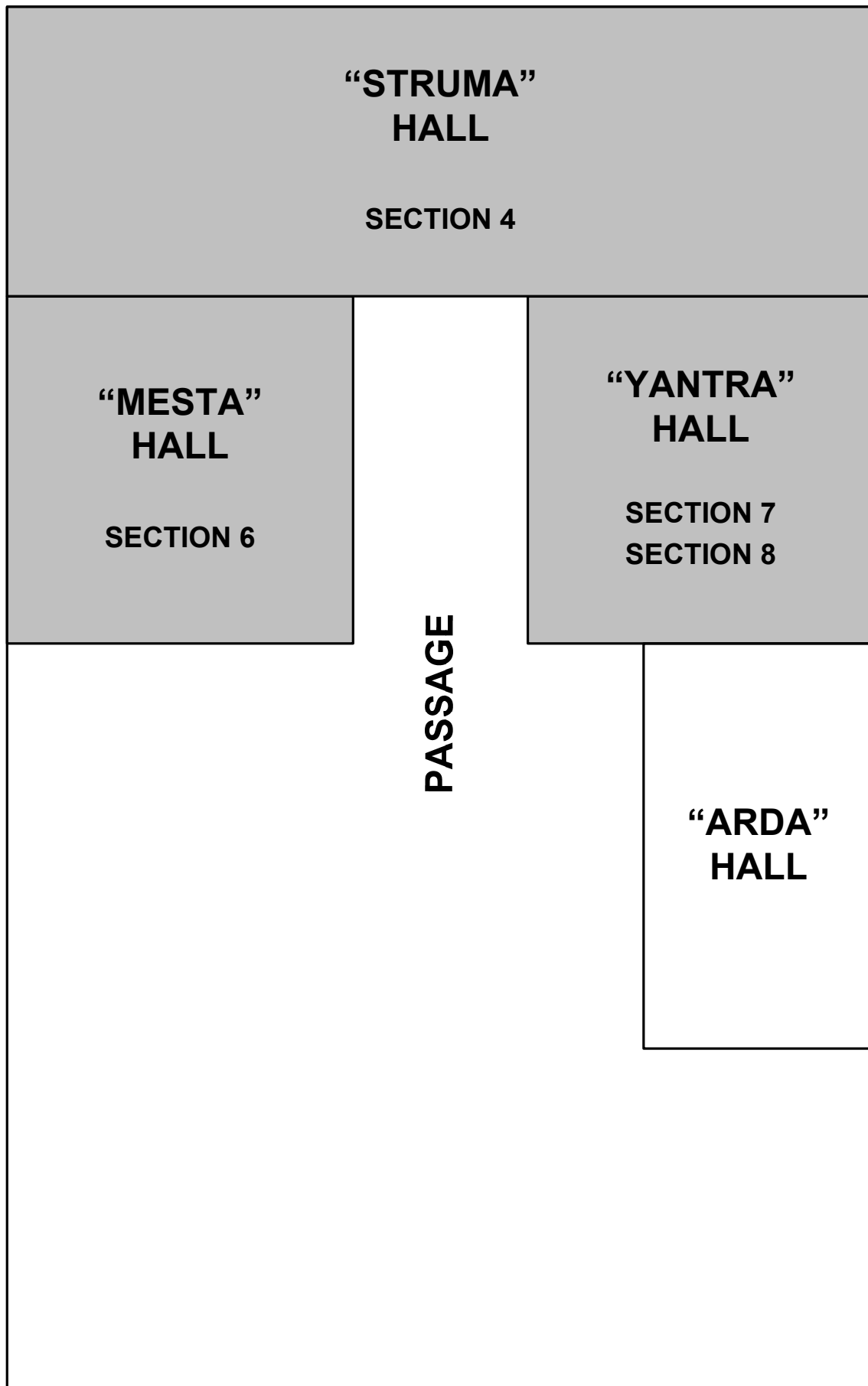


### HALL "YANTRA"



Dear Participants,  
You can use **WIRELESS INTERNET** via a hot-spot point in the hotel's  
foyer – free of charge 😊

**FLOOR R**

**FLOOR M**

## ◆ CONFERENCE OBJECTIVE

The **CompSysTech'10** International Conference is organized by **THE BULGARIAN ACADEMIC SOCIETY OF COMPUTER SYSTEMS AND INFORMATION TECHNOLOGIES** and by **THE ASSOCIATION FOR COMPUTING MACHINERY** and its OBJECTIVE is to intensify the information exchange of results in theoretical research and practical developments in this field.

**CompSysTech'10** is organized under the patronage of:

- **EUROPEAN COMMISSION - Directorate-General for Education and Culture;**
- **Bulgarian State Agency for Information Technologies and Communications;**
- **Bulgarian Ministry of Youth, Education and Science;**
- **Bulgarian Academy of Sciences;**
- **John Atanasoff Society of Automatics and Informatics;**
- **Bulgarian Chapter of the Association for Computing Machinery – acmbul;**
- **Bulgarian Chapter of IEEE Computer Society;**
- **Bulgarian Chapter of IEEE Communications Society.**

## ◆ INTERNATIONAL PROGRAMME COMMITTEE

### • Honorary Co-Chairs:

**Kiril Boyanov, Acad., DSc.** – Bulgaria

**Vassil Sgurev, Acad., DSc.** – Bulgaria

### • Co-Chairs:

**Todor Stoilov, Prof., DSc.** – Bulgaria

**Boris Rachev, Assoc. Prof., Ph.D.** – Bulgaria

### • Scientific Secretary:

**Dimo Dimov, Assoc. Prof., Ph.D.** – Bulgaria

### • Secretary

**Yordan Kalmukov** – Bulgaria

### • Members:

Alexander Sudnitson (Estonia)  
 Alla Anohina-Naumeca (Latvia)  
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 Angel Popov (Bulgaria)  
 Antanas Zilinskas (Lithuania)  
 Antonio Mendes (Portugal)  
 Avram Eskenazi (Bulgaria)  
 Belen Melian (Spain)  
 Bojan Cestnik (Slovenia)  
 Bozhan Zhechev (Bulgaria)  
 Candelaria Hernández-Goya (Spain)  
 Diana Kalibatiene (Lithuania)  
 Douglas Harms (United States)  
 Erika Asnina (Latvia)  
 Eugene Nickolov (Bulgaria)  
 Evtim Peytchev (United Kingdom)  
 George Totkov (Bulgaria)  
 Georgi Todorov (Bulgaria)  
 Grisha Spasov (Bulgaria)  
 Gundars Alksnis (Latvia)  
 Heinz-Dietrich Wuttke (Germany)  
 Hilda Tellioglu (Austria)  
 Howard Duncan (Ireland)  
 Iliya Georgiev (United States)

Ioannis Stamelos (Greece)  
 Ivan Jelinek (Czech Republic)  
 Jaime Sanchez (Chile)  
 Janis Grundspenkis (Latvia)  
 Janusz Jabłkowski (Poland)  
 Jiri Srba (Denmark)  
 John Galletly (Bulgaria)  
 Jouni Ikonen (Finland)  
 Jukka Teuhola (Finland)  
 Juliana Peneva (Bulgaria)  
 Karl Jones (United States)  
 Kostadin Kratchanov (Turkey)  
 Krassen Stefanov (Bulgaria)  
 Latif Ladid (Luxembourg)  
 Leon Rothkrantz (Netherlands)  
 Leonid Rozenblyum (United States)  
 Lyudmil Dakovski (Bulgaria)  
 Margarita Todorova (Bulgaria)  
 Maria Marcelino (Portugal)  
 Marite Kirikova (Latvia)  
 Markus Helfert (Ireland)  
 Martin Llamas-Nistal (Spain)  
 Mayer Aladjem (Israel)  
 Melih INAL (Turkey)  
 Michael Vassilakopoulos (Greece)



Milena Dobрева (United Kingdom)  
 Mirjana Ivanovic (Serbia)  
 Mouzhi Ge (Germany)  
 Nicole Levy (France)  
 Nik Bessis (United Kingdom)  
 Nikolay Dokev (Bulgaria)  
 Novruz Allahverdi (Turkey)  
 Olegas Vasilecas (Lithuania)  
 Pavol Navrat (Slovakia)  
 Peter Stanchev (United States)  
 Pino Caballero-Gil (Spain)  
 Radi Romansky (Bulgaria)

Raycho Ilarionov (Bulgaria)  
 Rebecca Bartlett (United Kingdom)  
 Roumen Nikolov (Bulgaria)  
 Stanislav Ivanov (Burundi)  
 Stavros Nikolopoulos (Greece)  
 Stoicho Stoichev (Bulgaria)  
 Tanja Urbancic (Slovenia)  
 Tzvetomir Vassilev (Bulgaria)  
 Ville Leppänen (Finland)  
 Vladimir Lazarov (Bulgaria)  
 Yannis Manolopoulos (Greece)

## ♦ NATIONAL ORGANIZING COMMITTEE

### • Co-Chairs:

**Parvan Rusinov – Bulgaria**  
**Angel Smrikarov, Assoc. Prof., Ph.D. – Bulgaria**  
**Bozhan Zhechev, Assoc. Prof., Ph.D. – Bulgaria**

### • Secretary:

Margarita Grigorova (Bulgaria)

### • Members:

Emil Bojanov (Bulgaria)  
 Plamenka Borovska (Bulgaria)  
 Alexander Dimov (Bulgaria)  
 Stoyan Bonev (Bulgaria)  
 Peter Antonov (Bulgaria)  
 Anatoliy Antonov (Bulgaria)  
 Margarita Todorova (Bulgaria)  
 Boyanka Zhelyazova (Bulgaria)  
 Totka Chernaeveva (Bulgaria)

Stoyanka Smrikarova (Bulgaria)  
 Grisha Spasov (Bulgaria)  
 Raicho Ilarionov (Bulgaria)  
 Margarita Teodosieva (Bulgaria)  
 Nikolai Liutov (Bulgaria)  
 Maria Kasheva (Bulgaria)  
 Daniela Dureva (Bulgaria)  
 Trifon Ruskov (Bulgaria)  
 Yordan Kalmukov (Bulgaria)

## ♦ TOPICS

1. Computer Systems (Hardware)
2. Computer Systems (Software)
3. Application Aspects of Computer Systems and Technologies
4. Educational Aspects of Computer Systems and Technologies
5. Biometrics
6. The youth and the ICT
  - PhD Students' Section
  - Students' Section
  - High-School Students' Section

## ♦ Co-located Event

Mini symposium "AstroInformatics"

Thursday 17<sup>th</sup> June 2010  
09:00 – 14:30  
HOTEL "RODINA" - FOYER  
REGISTRATION

15:00  
HALL 1  
**OPENING**  
WELCOME  
CHAIR  
Angel Smrikarov

## PLENARY SESSION

CHAIR  
Todor Stoilov

Topology control algorithms for wireless sensor networks: a critical survey  
**Yannis Manolopoulos, Dimitris Katsaros, Alexis Papadimitriou**  
Aristotle University, Thessaloniki, Greece  
\*\*\*\*\*

Anthropocentric Video Analysis for Film and Games Postproduction  
**Ioannis Pitas**  
Aristotle University, Thessaloniki, Greece  
\*\*\*\*\*

Computer-Aided Construction of Concurrent Systems  
**Martin Vechev**  
"IBM T.J. Watson Research Center", New York, USA  
\*\*\*\*\*

DISCUSSIONS

19:30  
Social Evening in the Restaurant of the Hotel "RODINA"



**CompSysTech'11 -  
VIENNA**



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## SECTION 1

### Computer Systems (Hardware)

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Chair: **Ville Leppänen**  
Co-Chair: **Raycho Ilarionov**  
Scientific Secretary: **Ivan Simeonov**

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**Friday 18<sup>th</sup> June 2010**  
**09:00 – 10:30**  
**„MARITSA” Hall**

- 1.1. Early Set to Zero Micro-Pipeline  
**Stamen Kolev, Dimitar Tyanev**
- 1.2. Race Condition free Asynchronous Micro-Pipeline Units  
**Dimitar Tyanev, Stamen Kolev, Dragomir Yanev**
- 1.3. Ultrasonic Device for Non-Contact Studying of Materials  
**Raycho Ilarionov, Ivan Simeonov, Hristo Kilifarev, Stanimir Yordanov, Nikolay Shopov, Hristo Ibrishimov**
- 1.4. Work-Optimal Routing in Wavelength-Division Multiplexed Three-Dimensional Dense Optical Tori  
**Ville Leppänen, Risto Honkanen**
- 1.5. Evaluation of the Support Efficiency of Hardware Controllers for Multi-Digit 7-Segment Indicator Displays  
**Borislav Petrov, Radoslav Raychev**

### DISCUSSIONS

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**11:00 – 11:30**  
**Coffee Break - Restaurant**

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**CompSysTech'11 -  
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## SECTION 2

### Computer Systems (Software)

Chair: **Tzvetomir Vasilev**  
Co-Chair: **Markus Helfert**  
Scientific Secretary: **Violeta Bozhikova**

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#### SECTION 2 - SESSION 1

**Friday 18<sup>th</sup> June 2010**  
**09:00 – 11:00**  
**Hall 1**

- 2.1. Business Process Management (BPM) – A Pathway for IT-Professionalism in Europe?  
**Jan vom Brocke**
- 2.2. On OWL/SWRL Mapping to UML/OCL  
**Diana Kalibatiene, Olegas Vasilecas**
- 2.3. Ontology Creation Using Formal Concepts Approach  
**Darius Jurkevicius, Olegas Vasilecas**
- 2.4. The Approach of Ensuring Consistency of UML Model Based on Rules  
**Ruta Dubauskaite, Olegas Vasilecas**
- 2.5. Decision Table Based Approach for Business Rules Modelling in Uml/Ocl  
**Olegas Vasilecas, Kestutis Normantas**
- 2.6. Framework for building ontology-based dynamic applications  
**Samuil Nikolov, Anatoliy Antonov**
- 2.7. Discovering Dynamic Integrity Rules with a Rules-Based Tool for Data Quality Analyzing  
**Thanh Thoa Pham Thi, Markus Helfert**
- 2.8. Certifying Data Quality Conformance  
**Markus Helfert, Fakir Mohammad Zakir Hossain**

#### DISCUSSIONS

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**11:00 – 11:30**  
**Coffee Break - Restaurant**

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**SECTION 2 - SESSION 2****Friday 18<sup>th</sup> June 2010****11:30 – 13:30****Hall 1**

- 2.9. Learning Systems as Ontology-based Learning Object Repository  
**Korneliya Yordanova**
- 2.10. How do you like Intelligent Virtual Agents  
**Dilyana Budakova, Emine Myumyun, Misli Karaahmed**
- 2.11. A Framework for Source Code metrics  
**Neli Maneva, Nikolay Grozev, Delyan Lilov**
- 2.12. An Approach for Software Cost Estimation  
**Violeta Bozhikova, Mariana Stoeva**
- 2.13. Encoding Watermark Integers as Self-inverting Permutations  
**Maria Chroni, Stavros D. Nikolopoulos**
- 2.14. Comparison of Several Parallel API for Cloth Modelling On Modern GPUs  
**Tzvetomir Vassilev**
- 2.15. Towards Programming on the Moving Threads Architecture  
**Jari-Matti Mäkelä, Ville Leppänen**
- 2.16. Indoor Navigation System for Visually Impaired  
**Rosen Ivanov**

**DISCUSSIONS**

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**13:30 – 14:30****Lunch**

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**SECTION 2 - SESSION 3**

**Friday 18<sup>th</sup> June 2010**

**14:30 – 15:45**

**Hall 1**

- 2.17. Generating Flight Fares Online in STADAF Format  
**Nikolaj Cholakov**
- 2.18. How Do We Collect Data for Software Reliability Estimation?  
**Aleksandar Dimov, Senthil Kumar Chandran, Sasikumar Punnekkat**
- 2.19. Network-Centric Architecture for Crisis Management System  
**Georgi Kirov, Valentin Stoyanov**
- 2.20. PSIRP project – Publish-Subscribe Internet Routing Paradigm. New ideas for Future Internet.  
**Vladimir Dimitrov, Ventzislav Koptchev**
- 2.21. Traffic and Congestion Control in a Publish/Subscribe network  
**Ventzislav Koptchev, Vladimir Dimitrov**

**DISCUSSIONS**

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## SECTION 3-A

### Application Aspects of Computer Systems and Technologies

Chairs: **Novruz Allahverdi**  
Co-Chairs: **Iliya Georgiev**  
Scientific Secretaries: **Orlin Tomov**

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#### SECTION 3A - SESSION 1

**Friday 18<sup>th</sup> June 2010**  
**09:00 – 11:00**  
**Hall 2**

- 3A.1. A Comparative Study of ANN and FES for Predicting of Cutting Forces and Tool Tip Temperature in Turning  
**Ilker Ali OZKAN, Ismail SARITAS, Suleyman YALDIZ**
- 3A.2. Application of Fuzzy Control Approach in Greenhouse Automation  
**Mehmet Nuri Ödük, Novruz Allahverdi**
- 3A.3. Comparision of Numerical Technique and Artificial Intelligence Techniques for Performance Modelling of a Diesel Engine  
**Kemal Tutuncu, Novruz Allahverdi**
- 3A.4. Performance and Emission Optimization of Diesel Engine by Single and Multi-Objective Genetic Algorithms  
**Kemal Tutuncu, Novruz Allahverdi**
- 3A.5. Modeling of Grinding Wheel Sharpness by Using Neural Network  
**Hamid Baseri**
- 3A.6. M-estimators over Separable Sets of Representative Points for Template Matching  
**Yulka Petkova, Nuri Nuri**
- 3A.7. Template Localization Using Invariant Moments  
**Yulka Petkova, Nuri Nuri**
- 3A.8. Solving Project Scheduling Problems by Maximum Cut Computation  
**Zsolt Csuka**

#### DISCUSSIONS

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**11:00 – 11:30**  
**Coffee Break – Restaurant**

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**SECTION 3A - SESSION 2****Friday 18<sup>th</sup> June 2010****11:30 – 13:30****Hall 2**

3A.9. An Approach for Node Identification and Key Management in Sensor Grids

**Iliya Georgiev**

3A.10. An Approach for Performance Improvement of Class of Algorithms for Synthesis of Non-conflict Schedule in the Switch Nodes

**Kiril Kolchakov**

3A.11. Computing Simulation of Schedule Algorithm for High Performance Packet Switch Node Modelled by the Apparatus of Generalized Nets

**Tasho Tashev**

3A.12. Evaluating Options for Implementing a Geographically Local Community Service for Access Network

**Antero Laukkanen, Jouni Ikonen**

3A.13. Propagation Models and Harbor Area Network Planning

**Juho Vartianen, Jouni Ikonen, Jari Porras**

3A.14. Service Discovery and Selection Approaches in Peerhood Environment

**Marc Torner Tomàs, Arto Härmäläinen, Jouni Ikonen, Jari Porras**

3A.15. Testbed Environment for Experimental Analysis and Applications Prototyping in Body Sensor Networks

**Mitko Shopov, Velislava Spasova, Grisha Spasov**

3A.16. The System of Qualitative and Quantitative Indicators for MPLS Networks Analysis

**Veneta Aleksieva**

**DISCUSSIONS**

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**13:30 – 14:30****Lunch**

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## SECTION 3-B

### Application Aspects of Computer Systems and Technologies

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Chairs: **Krasimira Stoilova**

Co-Chairs: **Hilda Tellioglu**

Scientific Secretaries: **Tsvetozar Georgiev**

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#### SECTION 3B - SESSION 1

**Friday 18<sup>th</sup> June 2010**

**09:00 – 11:00**

**Hall 3**

- 3B.1. Dynamic Stochastic Optimisation Using Endogenous Gridpoints for Consumption in Lithuania  
**Audrone Jakaitiene, Antanas Zilinskas**
- 3B.2. Experimental Results for Two Implementations of A Probabilistic Algorithm for Minimum Distance of Linear Codes  
**Iliya Bouyukliev, Venelin Monev**
- 3B.3. EmoReSp – An Online Emotion Recognizer Based on Speech  
**Iulia Lefter, Pascal Wiggers, Leon J. M. Rothkrantz**
- 3B.4. Products Appreciation by Facial Expressions Analysis  
**Mirela Popa, Leon Rothkrantz, Pascal Wiggers**
- 3B.5. On Quantum Information and the Protection by Quantum Codes  
**Zlatko Varbanov**
- 3B.6. Potential Formal Models for Autonomic Computing Applications  
**Todor Stoilov, Krasimira Stoilova**
- 3B.7. Coordination of Work: Towards A Typology  
**Hilda Tellioglu**
- 3B.8. One Approach for Creation of Images and Video for a Multiview Autostereoscopic 3D Display  
**Emiliyan Petkov**

#### DISCUSSIONS

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**11:00 – 11:30**

**Coffee Break – Restaurant**

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**SECTION 3B - SESSION 2****Friday 18<sup>th</sup> June 2010****11:30 – 13:30****Hall 3**

- 3B.9. Web-Based Decision Support System in Regional Water Resources Management  
**Rossen Iliev, Leoneed Kirilov, Emil Bournaski**
- 3B.10. Towards Online Accessibility of Valuable Phenomena of the Bulgarian Folklore Heritage  
**Radoslav Pavlov, Desislava Paneva-Marinova, Konstantin Rangochev, Maxim Goynov, Detelin Luchev**
- 3B.11. Digitalization and Security of "Bulgarian Folklore Heritage" archive  
**Galina Bogdanova, Todor Todorov, Nikolay Noev**
- 3B.12. Agile Systems Development for the Management of Service Oriented Organizations  
**Marinela Mircea, Anca Ioana Andreescu**
- 3B.13. Module for Investigation of the User's Text Reading Speed on Mobile Devices  
**Tsvetozar Georgiev, Evgeniya Georgieva**
- 3B.14. System for Non-Contact Ultrasonic Study of Mediums and Materials Intended for Embedding into Automated Manufacturing Systems  
**Stanimir Yordanov, Raycho Ilarionov, Ivan Simeonov, Hristo Kilifarev, Nikolay Shopov, Hristo Ibrishimov**

**DISCUSSIONS**

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**13:30 – 14:30****Lunch**

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## SECTION 4

### Educational Aspects of Computer Systems and Technologies

Chairs: **Jiri Srba**

Co-chairs: **Karl O. Jones**

Scientific Secretary: **Vladimir Mateev**

#### SECTION 4 - SESSION 1

**Friday 18<sup>th</sup> June 2010**

**09:00 – 11:00**

**“STRUMA” Hall**

- 4.1. 3D Model of e-Learning  
**Donika Valcheva, Margarita Todorova, Oleg Asenov**
- 4.2. A Lightweight Model of Computer Based Training for Exam Preparation  
**Horst Liske**
- 4.3. A Software Frame for Modelling and Runtime Control of Adaptive Testing  
**Hristo Indzhov, Mariana Sokolova, George Totkov**
- 4.4. Development of the Scoring Mechanism for the Concept Map Based Intelligent Knowledge Assessment System  
**Alla Anohina-Naumeca, Maija Strautmane, Janis Grundspenkis**
- 4.5. Influence of Interpersonal Perception on Information and Knowledge Sharing in E-Learning Networks  
**Wladimir Bodrow, Markus Helfert, Martin Steinicke**
- 4.6. Providing Students With Assessments That Directly Relate To Their Graduate Employment  
**Karl O. Jones, David L. Ellis, Paul Otterson, Kevin Bains-Johnston, T. Anthony Moore, Colin Robinson**
- 4.7. Automata Simulator  
**Daniela Chudá, Dušan Rodina**
- 4.8. Improving the UI of Interactive Training Simulators to address the Y/Z-Generations' Learning Style  
**Aneliya Ivanova**

#### DISCUSSIONS

**11:00 – 11:30**

**Coffee Break – Restaurant**

**SECTION 4 - SESSION 2****Friday 18<sup>th</sup> June 2010****11:30 – 13:00****“STRUMA” Hall**

- 4.9. Adaptive Web-based Multiplexer Educational Tool  
**Vladimir Mateev**
- 4.10. Teaching Java through Different Courses – Multi-Country Experiences  
**Mirjana Ivanović, Zoran Budimac, Anastas Mišev, Klaus Bothe, Ioan Jurca**
- 4.11. Checking Plagiarism in e-Learning  
**Daniela Chudá, Bianka Kováčová**
- 4.12. Turnitin is not the Primary Weapon in the Campaign Against Plagiarism  
**Karl O. Jones, T. Anthony Moore**
- 4.13. An Experiment with Using Google Tools for Project Supervision at Tertiary Education  
**Jiri Srba**
- 4.14. Constructing Semantic Ontologies for Business Analytics  
**Bojan Cestnik, Stojan Košti**
- 4.15. U-Search: A meta engine for creation of knowledge paths on the web  
**Marco Alfano, Biagio Lenzitti**
- 4.16. Do We Still Need to Train Them for Distance Teaching? Distance Teachers Attitudes  
**Ásrún Matthíasdóttir**

**DISCUSSIONS**

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**13:30 – 14:30****Lunch**

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**SECTION 4 - SESSION 3**

**Friday 18<sup>th</sup> June 2010**

**14:30 – 15:00**

**“STRUMA” Hall**

- 4.17. Importance of Web 2.0- Mediated Competence for the Educational Demands on Learners  
**Boyka Gradinarova**
- 4.18. IPv6 training in Europe  
**Franck Le Gall, Fabrice Clari, Caroline Garence, Florence Falconetti Dumas**

**DISCUSSIONS**

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## SECTION 5

### Biometrics

Chair: **Léon Rothkrantz**

Co-chair: **George Letchov**

Scientific Secretary: **Alexander Dimov**

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**Friday 18<sup>th</sup> June 2010**

**10:30 – 11:00**

**“MARITSA” Hall**

5.1. Inversion of Grm for Estimating Leaf Area Index by Remote Sensing

**George Letchov**

5.2. Stress Assessment of Car Drivers Using Eeg Analysis

**Paul van den Haak, Rinde van Lon, Jaap van der Meer, Léon Rothkrantz**

### DISCUSSIONS

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**11:00 – 11:30**

**Coffee Break - Restaurant**

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## SECTION 6

### PhD Students in Computing

Chairs: **Vladimir Lazarov**

Co-chairs: **Antonio Jose Mendes**

Scientific Secretary: **Georgi Georgiev**

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**Friday 18<sup>th</sup> June 2010**

**09:00 – 11:00**

**“MESTA” Hall**

- 6.1. Rule Based Conversion of UsiXML-based GUI Description  
**Plamen Paskalev, Ilka Serafimova**
- 6.2. Methods for Reducing Information Uncertainty in Risk Conditions and  
Uncertainty in Management Decision Making  
**Imren Ismailova**
- 6.3. Method Combination for Information Extraction  
**Vojtěch Jirkovský, Ivan Jelínek**
- 6.4. Ethics and Security in Text Mining of Patient Records in Bulgarian: the EVTIMA  
Solution  
**Ivelina Nikolova, Hristo Dimitrov, Dimitar Tcharaktchiev**
- 6.5. Adaptive Web-based Systems: From Framework to Implementation  
**Bujar Raufi, Juliana Georgieva**
- 6.6. Optimizations in Time Series Clustering and Prediction  
**Ventsislav Nikolov**
- 6.7. Integration of Neural Networks and Expert Systems for Time Series Prediction  
**Ventsislav Nikolov, Valeri Bogdanov**
- 6.8. Diversifying activities to improve student performance in programming courses  
**Scheila Wesley Martins, Antonio Jose Mendes, Antonio Dias Figueiredo**
- 6.9. Automated Evaluation of Speech for Electronic Therapy of People with  
Communicative Disorders  
**Vania Sivakova, George Totkov**

### DISCUSSIONS

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**11:00 – 11:30**

**Coffee Break - Restaurant**

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**CompSysTech'11 -  
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## SECTION 7

### Students in Computing

Chair: **Petar Kenderov**

Co-chair: **Emil Keveledjiev**

Scientific Secretaries: **Anelia Ivanova**

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**Friday 18<sup>th</sup> June 2010**

**09:00 – 09:30**

**“YANTRA” Hall**

7.1. Web-services with JADE - Visualization by Applets

**Kaloyan Mironov**

7.2. Creating Animations using Affine Transformations and Bezier Curves in the Programming Environment.

**Plamen Asenov, Ivajlo Bojkov, Slavi Hadjiivanov**

### DISCUSSIONS

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**11:00 – 11:30**

**Coffee Break - Restaurant**

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**CompSysTech'11 -  
VIENNA**

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## SECTION 8

### High-School Students in Computing

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Chair: **Petar Kenderov**

Co-chair: **Emil Keveledjiev**

Scientific Secretaries: **Anelia Ivanova**

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**Friday 18<sup>th</sup> June 2010**

**09:30 – 11:00**

**“YANTRA” Hall**

- 8.1. Folklorika (Bulgarian folk art)  
**Dobromir Kostov, Plamen Minkov, Galia Nedelcheva, Zornica Dzhenkova**
- 8.2. Steganographic algorithms - research, analysis and implementation.  
**Katerina Velcheva, Stanimir Stanev, Hristo Paraskevov**
- 8.3. GProject - Platform for studying object movement.  
**Georgi Jordanov**
- 8.4. Dynamic programming with reducing the innermost loop by using a queue.  
**Kalina Petrova**
- 8.5. Protein Sequence Alignment Using Specialized Matrices  
**Simona Boyadzhiyska, Valeria Staneva**

### DISCUSSIONS

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**11:00 – 11:30**

**Coffee Break - Restaurant**

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**CompSysTech'11 -  
VIENNA**

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## MINI SYMPOSIUM

|                         |
|-------------------------|
| <b>Astroinformatics</b> |
|-------------------------|

Chair: **Dimo Dimov**  
Co-chair: **Ognyan Kunchev**  
Sci.Secretary: **Nadejda Zlateva**

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**Friday 18<sup>th</sup> June 2010**  
**11:00 – 12:30**  
**“MARITSA” Hall**

1. Data Driven Approach to Binarization of Astronomical Images  
**Dimo Dimov, and Aleksandar Dimov**
2. ICP Algorithm for Alignment of Stars from Astronomical Photographic Images  
**Alexander Marinov, Nadezhda Zlateva**
3. Orthogonal Multifilters Image Processing on Astronomical Images of Scanned Photographic Plates  
**Vasil Kolev**
4. Polyharmonic Daubechies Type Wavelets in Image Processing and Astronomy, I  
**Ognyan Kounchev, Damyan Kalaglarsky**
5. Polyharmonic Daubechies Type Wavelets in Image Processing and Astronomy, II  
**Ognyan Kounchev, Damyan Kalaglarsky, Milcho Tsvetkov**

## DISCUSSIONS

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**13:30 – 14:30**  
**Lunch**

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**Friday 18<sup>th</sup> June 2010  
16:00  
Hall 1**

**The CHAIRS  
of the PROGRAMME COMMITTEE and the ORGANIZING COMMITTEE  
will bestow  
a CRYSTAL PRIZE  
to the authors of the best papers.**



**Friday 18<sup>th</sup> June 2010  
16:30  
Hall 1**

**Meeting  
of the PROGRAMME COMMITTEE and ORGANIZING COMMITTEE  
and the chairs of each sections  
of the CompSysTech'10**

Friday 18<sup>th</sup> June 2010  
19:30

**Social Evening in BULGARIAN RESTAURANT “PRI YAFATA”**  
(28 “Solunska” str., tel.: 980 17 27)

This is a Typical Bulgarian Tavern. The Interior is completely traditional Bulgarian. The place has two halls and airy summer garden. In the middle of the big hall there is BBQ in which you have a personal chef who will cook in front of your very eyes!

**HOTEL “RODINA”**

**MEHANA “PRI YAFATA”**



## SOFIA

