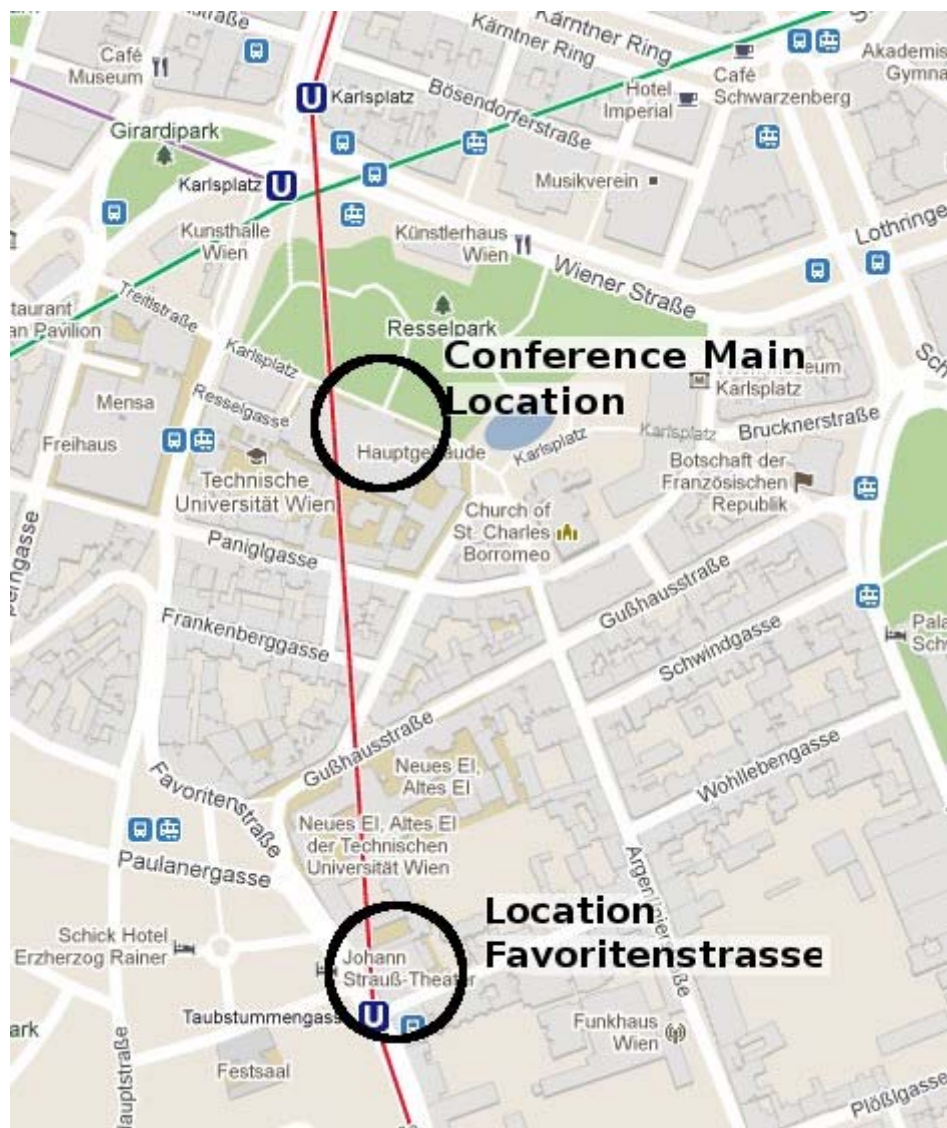


VIENNA UNIVERSITY OF TECHNOLOGY

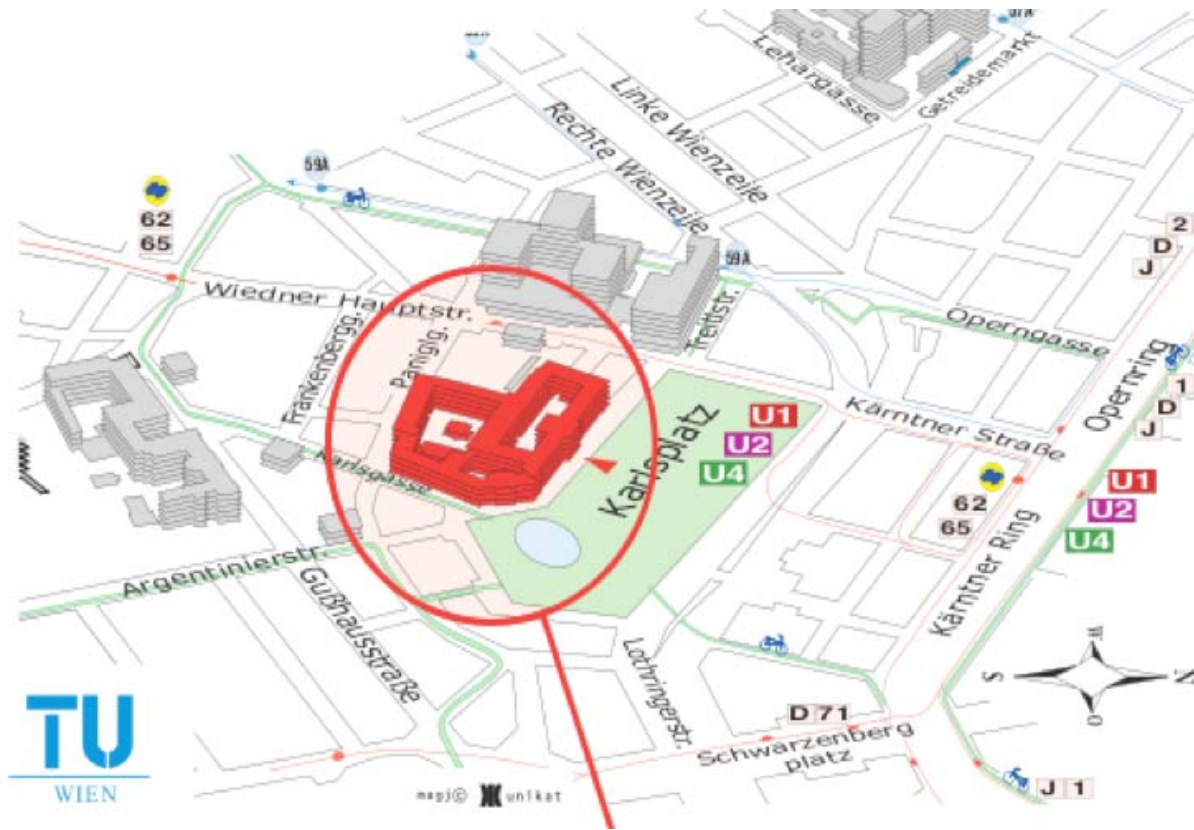
**Karlsplatz 13
1040 Vienna**



**Favoritenstrasse 9-11
1040 Vienna**



Karlsplatz 13



PRECHTL-HALL Ground floor (PLENARY SESSION)



**Favoritenstrasse 9-11
Conference halls**

**HALL 2
(SECTION 3-A)**



**HALL 3
(SECTION 1)**



**HALL 4
(SECTION 2)**



**HALL 5
(SECTION 3-B)**



**HALL 6
(SECTION 4)**



CONFERENCE OBJECTIVE

The **CompSysTech'11** 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'11 is organized under the patronage of:

- EUROPEAN COMMISSION - Directorate-General for Education and Culture
- Bulgarian Ministry of Education, Youth and Science
- Bulgarian Academy of Sciences
- John Atanasoff Society of Automatics and Informatics
- Bulgarian Chapter of IEEE Computer Society
- Bulgarian Chapter of IEEE Communications Society

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Bulgaria

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Novruz Allahverdi (Turkey)

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 Leon Rothkrantz (Netherlands)
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 Stanislav Ivanov (Bulgaria)
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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

CO-LOCATED EVENTS

1. MINI SYMPOSIUM "ASTROINFORMATICS"

2. WORKSHOP "SERVICE-ORIENTED AND CLOUD COMPUTING"

Thursday 16th June 2011

**09:00 – 14:30
PRECHTL-HALL
(Foyer)
REGISTRATION**

**15:00
PRECHTL-HALL**

OPENING
Young Talents from Vienna

WELCOME
from the Vienna university of technology

PLENARY SESSION

**CHAIR
HILDA TELLIOGLU**

KEYNOTE SPEAKERS



JOHANN EDER
Alpen Adria Universitat Klagenfurt

Lecture on: **View-based Interorganizational Workflows**



SCHAHRAM DUSTDAR
Vienna University of Technology

Lecture on: **Socially enhanced Services Computing**

**MEHDI JAZAYERI**

University of Lugano

Lecture on: **End-User Programming of Web-Native Interactive Application**

**MILAN DIMITRJEVIC**

Astronomical Observatory, Belgrade

Lecture on: **New Challenges of Astroinformatics - STARK-B Database and Serbian Virtual Observatory - SerVO and Relations to European Virtual Atomic Data Centre - VAMDC**

DISCUSSIONS

19:30

Social Evening

SUMMERSTAGE VIENNA

Donaukanal / U4-Station Rossauer Lände, 1090 Vienna

:-)

SECTION 1

Computer Systems (Hardware)

Chair: **Alexander Sudnitson**

Co-Chair: **Ville Leppänen**

Scientific Secretary: **Radoslav Mladenov**

Friday 17th June 2011

09:00 – 10:15

Hall 3

- 1.1. A Layout for Sparse Cube-Connected-Cycles Network
Ville Leppänen, Martti Penttonen, Martti Forsell
- 1.2. Non-Linear Asynchronous Micro-pipelines
Dimitar Tyanev, Dragomir Yanev, Stefka Popova
- 1.3. Recursion and Hierarchy in Digital Design and Prototyping: A Case Study
Dmitri Mihhailov, Margus Kruus, Valery Sklyarov, Ioulia Skliarova, Alexander Sudnitson
- 1.4. RISC-based moving threads multicore architecture
Jari-Matti Mäkelä, Ville Leppänen, Martti Forsell
- 1.5. A Self-tuning Hybrid Flash Translation Layer For Embedded Systems
Radoslav Mladenov, Sava Ivanov

DISCUSSIONS

11:00 – 11:30

Coffee Break – Ground Floor

**CompSysTech'12 -
PLOVDIV, BULGARIA**

SECTION 2

Computer Systems (Software)

Chair: **Stavros D. Nikolopoulos**

Co-Chair: **Amar Ramdane-Cherif**

Scientific Secretary: **Ilka Serafimova**

SECTION 2 - SESSION 1

Friday 17th June 2011

09:00 – 11:00

Hall 4

- 2.1. An Integrated Approach for RUP, EA, SOA and BPM Implementation
Juan Pablo Napoli, Kalinka Kaloyanova
- 2.2. A Distributed Service Oriented System for GUI Map Generation
Paweł Brach, Jacek Chrzęszcz, Janusz Jabłonowski, Jakub Światły
- 2.3. Abstract model of an Object-Oriented Layer for distributed systems based on the DDS standard
Georgi Kirov, Valentin Stoyanov, Boyan Lazarov
- 2.4. An Interactive Evolutionary Algorithm for Multiple Objective Convex Integer Problems
Vassil Guliashki, Leoneed Kirilov
- 2.5. Exploring the Efficiency of Parallel Bacteria Foraging Metaheuristics for Job Shop Scheduling Problem Optimization
Plamenka Borovska, Emilyan Asenov, Veska Gancheva
- 2.6. Deriving Business Rules From The Models Of Existing Information Systems
Olegas Vasilecas, Kestutis Normantas
- 2.7. Rule Based Framework for Intelligent GUI Adaptation
Plamen Paskalev, Ilka Serafimova
- 2.8. Algorithm of Concept Map Transformation to Ontology for Usage in Intelligent Knowledge Assessment System
Vita Graudina, Janis Grundspenkis

DISCUSSIONS

11:00 – 11:30

Coffee Break – Ground Floor

SECTION 2 - SESSION 2**Friday 17th June 2011****11:30 – 13:30****Hall 4**

- 2.9. Designing patterns for multimodal fusion
Ahmad Wehbi, Amar Ramdane-Cherif, Chakib Tadj
- 2.10. Emotion recognition using bimodal data fusion
Dragos Datcu, Leon J.M. Rothkrantz
- 2.11. Investigation of the Emotional Characteristics of the Words from an Electronic School-Aid Dictionary
Dilyana Budakova, Stoil Penev
- 2.12. Towards Semi-Automatic Usability Analysis through Eye Tracking
Maria Grazia Albanesi, Riccardo Gatti, Marco Porta, Alice Ravarelli
- 2.13. Encoding Watermark Numbers as Cographs using Self-inverting Permutations
Maria Chroni, Stavros D. Nikolopoulos
- 2.14. A Classification Method Based on Two Separating Hyper Surfaces
Valeri Ilchev, Svetozar Ilchev
- 2.15. Local Weighted Approach to Time Series Forecasting
Ventsislav Nikolov
- 2.16. Reducing the Number of Unit Tests with Design by Contract
Harri Hakonen, Sami Hyrynsalmi, Antero Järvi

DISCUSSIONS

13:30 – 14:30**Lunch – Mensa**

SECTION 2 - SESSION 3**Friday 17th June 2011****14:30 – 15:45****Hall 4**

- 2.17. A Prototype of a Web-based Decision Support System for Building Models and Solving Optimization and Decision Making Problems
Krasimira Genova, Leoneed Kirilov, Vassil Guliashki, Boris Staykov, Daniel Vatov
- 2.18. Enhancing Automatic Term Recognition Algorithms with HTML Tags Processing
Milan Lučanský, Marián Šimko, Mária Bielíková
- 2.19. Lifting and Lowering the Data from Digital Library "Virtual Encyclopedia of Bulgarian Iconography"
Ivo Marinchev
- 2.20. Developing Service Oriented Architectures for Increasing Software Application's Reliability
Anca Ioana Andreescu, Marinela Mircea
- 2.21. Comparison Of Firefly Algorithm Optimisation, Particle Swarm Optimisation And Differential Evolution
Karl O. Jones, Grégoire Boizanté

DISCUSSIONS

**CompSysTech'12 -
PLOVDIV, BULGARIA**

SECTION 3-A

Application Aspects of Computer Systems and Technologies

Chairs: **Plamenka Borovska**

Co-Chairs: **Markus Helfert**

Scientific Secretaries: **Adelina Aleksieva-Petrova**

SECTION 3A - SESSION 1

Friday 17th June 2011

09:00 – 11:00

Hall 2

- 3A.1. A parallel GPU implementation of an algorithm for determining directional distances
Mika Murtojärvi, Ville Leppänen, Olli S. Nevalainen
- 3A.2. Comparison of Parallel Algorithms for Modelling Mass-springs Systems with Several APIs on Modern GPUs
Tzvetomir Vassilev
- 3A.3. Parallel Models for Sequence Alignment on CPU and GPU
Plamenka Borovska, Milena Lazarova
- 3A.4. Acoustic Mapping on three-dimensional models
Andy Meyer, Dirk Döbler, Jan Hambrecht, Manuel Matern
- 3A.5. Accurate 3D Object Measurement and Inspection using Structured Light Systems
Kesheng Wang, Quan Yu
- 3A.6. An Algorithm for Fast Image Registration and Feature Matching for the Purposes of Image Stitching
Yulka Petkova, Nuri Nuri
- 3A.7. Depth Estimation using Shifted Digital Still Camera
Iva Nikolova, Atanas Nikolov, Georgi Zapryanov
- 3A.8. Simulated Images of Faces with Eyeglasses
Ivan Buliev, Peycho Popov, Blagovesta Hristova

DISCUSSIONS

11:00 – 11:30

Coffee Break – Ground Floor

SECTION 3A - SESSION 2**Friday 17th June 2011****11:30 – 13:30****Hall 2**

- 3A.9. Parallel Performance Evaluation of Multithreaded Local Sequence Alignment
Plamenka Borovska, Veska Gancheva, Galin Dimitrov, Krasimir Chintov
- 3A.10. Grid Resource Management Using Lottery Scheduling
Plamenka Borovska, Adelina Aleksieva-Petrova, Veska Gancheva, Stefan Beshkov
- 3A.11. Discovering Business Rules from Business Process Models
Thanh Thoa Pham Thi, Markus Helfert, Fakir Hossain, Thang Le Dinh
- 3A.12. Visualization of Complex Data Relationships and Maps: Using the BLOOM Platform to Provide Business Insights
Frank Horsfall, Stoyan Tanev, Boyan Bontchev, Todor Gigilev and Angel Gruev
- 3A.13. Information management of mechatronic systems materials
Rima Ben Mosbah, Sébastien Dourlens, Amar Ramdane-Cherif, Nicole Levy, Francisca Losavio
- 3A.14. Web Service Platform for Engineering Design Optimization of a Mechatronic Multi-parts Component
Rima Ben Mosbah, Sébastien Dourlens, Amar Ramdane-Cherif, Nicole Levy, Francisca Losavio
- 3A.15. System Implementation and Adaptation Evaluation in Adaptive Web-Based Systems
Bujar Raufi
- 3A.16. A Construction Plan Image Service for Smart Phones
Risto Laine, Jouni Ikonen

DISCUSSIONS

13:30 – 14:30**Lunch – Mensa**

SECTION 3A - SESSION 3**Friday 17th June 2011****14:30 – 16:00****Hall 2****3A.17. CAD Module for Knitting Patterns Design****Elena Zaharieva-Stoyanova, Stefan Bozov****3A.18. Problems and solutions for creating and using virtual models of forest ecosystems****Boyanka Zhelyazova, Radoslav Miltchev****3A.19. Tangible interfaces as a chance for higher technology acceptance by the elderly****Wolfgang Spreicer****3A.20. Static memory optimization by clustering and neural networks in embedded devices****Vladimir Yanakiev, Elena Paunova****3A.21. Adaptive Feed-forward and Feedback control using neural networks for oxygen ratio in Fuel cell stacks****Omar Ragb, Karl Jones, Dingli Yu, J Barry Gomm****3A.22. Residual generation for fault detection of internal combustion engine****Adnan Hamad, Karl Jones, Dingli Yu, J B Gomm, Mahavir S Sangha****DISCUSSIONS**

**CompSysTech'12 -
PLOVDIV, BULGARIA**

SECTION 3-B

Application Aspects of Computer Systems and Technologies

Chairs: **Novruz Allahverdi**
Co-Chairs: **Daniela Chudá**
Scientific Secretaries: **Diana Grigorova**

SECTION 3B - SESSION 1

Friday 17th June 2011
09:00 – 11:00
Hall 5

- 3B.1. A Fuzzy Expert System Design to Monitor Patient's Condition During Hearth Surgery
Novruz Allahverdi, Gokhan Altan
- 3B.2. A Post Cardiac Surgery Home-Monitoring System
George Matheou, Efthymoulos Kyriacou, Panayiota Chimonidou, Constantinos Pattichis, Ekaterini Lambrinou, Vassilis I. Barberis, George P. Georghiou
- 3B.3. A Simplified 2D Real Time Navigation System For Hysteroscopy Imaging
Ioanna Herakleous, Ioannis P. Constantinou, Elena Michael, Marios S. Neofytou, Constantinos S. Pattichis, Vasillis Tanos
- 3B.4. Literature Mining of Blood Flow Regulatory Mechanisms for Finding Cross Context Relations
Maja Bračič Lotrič, Bojan Cestnik
- 3B.5. Protein Structure Comparison Based on Distances between Secondary Structure Elements and Backbone Dihedral Angles
Dobrinka Petrova
- 3B.6. VI-Navi: A Novel Indoor Navigation System for Visually Impaired People
Parth Mehta, Pavas Kant, Poojan Shah, Anil K. Roy
- 3B.7. Algorithm for blind navigation along a GPS track
Rosen Ivanov
- 3B.8. Surveillance System Using Abandoned Object Detection
Zhenke Yang, Leon J. M. Rothkrantz

DISCUSSIONS

11:00 – 11:30
Coffee Break – Ground Floor

SECTION 3B - SESSION 2

Friday 17th June 2011
11:30 – 13:30
Hall 5

- 3B.9. Risk Analysis of a Video-Surveillance System
Leon J. M. Rothkrantz, Iulia Lefter
- 3B.10. Risk Analysis supported by Information Security Metrics
Jakub Breier, Peter Hofbauer, Ladislav Hudec
- 3B.11. Zero pronoun resolution in Bulgarian
Diana Grigorova
- 3B.12. An Adaptive Circular (Text) Input for Handheld Devices
Siska Fitrianie, Leon J. M. Rothkrantz
- 3B.13. Dynamic Bayesian Networks for Situational Awareness in the Presence of Noisy Data
Pascal Wiggers, Bionda Mertens, Leon J. M. Rothkrantz
- 3B.14. The impact of text pre-processing to determine the similarity in students assignments
Daniela Chudá, Ján Chlpek, Andrej Kumor
- 3B.15. Obfuscating Plagiarism Detection - Vulnerabilities and Solutions
Tomáš Kučečka
- 3B.16. The Plagiarism Detection by Compression Method
Daniela Chudá, Martin Uhlík

DISCUSSIONS

13:30 – 14:30
Lunch – Mensa

SECTION 3B - SESSION 3**Friday 17th June 2011****14:30 – 16:00****Hall 5****3B.17. Service sharing among IMS domains****Tomas Kovacik, Ivan Kotuliak****3B.18. An approach for finding proper packet size in IPv6 Networks****Delyan Genkov****3B.19. Quality of Service Models for Mobile Ad-hoc Networks****Peter Magula, Margaréta Kotočová****3B.20. Introducing Secure and Self-Organized Vehicular Ad-Hoc Networks****Cándido Caballero-Gil, Jezabel Molina-Gil, Pino Caballero-Gil, F. Martín-Fernández, D. Yanes-García****3B.21. Reputation Lists and Groups to Promote Cooperation****J. Molina-Gil, C. Caballero-Gil, P. Caballero-Gil****3B.22. A Study of Modeling Precision of an Algorithm for Crossbar Switch Node under Scientific Linux SL Release 5.****Tasho Tashev, Vladimir Monov****DISCUSSIONS**

**CompSysTech'12 -
PLOVDIV, BULGARIA**

SECTION 4

Educational Aspects of Computer Systems and Technologies

Chairs: **Hilda Tellioglu**
Co-chairs: **Douglas Harms**
Scientific Secretary: **Galina Ivanova**

SECTION 4 - SESSION 1

Friday 17th June 2011
09:00 – 11:00
HALL 6

KEYNOTE SPEAKER



DIMITRIS KARAGIANNIS
University of Vienna

Lecture on: **Model-Driven Design applied for e-Learning: Results and Experiences from European Research Projects**

- 4.1. Approaches to integration of the dichotomic tables in computer applications for the needs of electronic and mobile learning in the field of biological sciences
Radoslav Miltchev, Evgeni Tsavkov, Galin Milchev
- 4.2. Assessment of language skills weaknesses and their confrontation through personalized e-Lessons
Nikitas N. Karanikolas, Michael Gr. Vassilakopoulos
- 4.3. Influence of Memory Modelling on the Simulation of Information and Knowledge Sharing in E-Learning Networks
Wladimir Bodrow, Markus Helfert, Martin Steinicke
- 4.4. Communication Performance of a Recirculative Omega High-Speed System Area Network for HPC
Plamenka Borovska, Desislava Ivanova
- 4.5. E = MA2 (E-Learning in a Moodle-based Adaptive and Accumulative System)
Hristo Indzhov, George Totkov, Rositsa Doneva
- 4.6. Adaptive Test System Based on Revised Bloom's Taxonomy
Mariana Raykova, Hristina Kostadinova, George Totkov

DISCUSSIONS

11:00 – 11:30
Coffee Break – Ground Floor

SECTION 4 - SESSION 2

Friday 17th June 2011
11:30 – 13:30
HALL 6

- 4.7. A Framework for Automated Generation of Examination Questions from Web Based Semantically Treated Search Results
Horst Liske
- 4.8. Comparing Developed MLUAT (Mobile Learning Usability Attribute Testing) Methodology with Qualitative User Testing Method and Heuristics Evaluation
Majlinda Fetaji, Bekim Fetaji
- 4.9. Developing and Analysing a Mobile Learning Knowledge Management System
Bekim Fetaji, Mirlinda Ebibi, Majlinda Fetaji
- 4.10. Studying Possibilities to Use Several Experts' Maps in the Concept Map Based Knowledge Assessment System
Alla Anohina-Naumeca, Sigita Milasevicha
- 4.11. Evaluation of Learning Styles Adaption in the ADOPTA E-learning Platform
Dessislava Vassileva
- 4.12. Modes of classroom assessment in computer science
Hilda Tellioglu
- 4.13. Personal Robots in CS1: Implementing the Myro API in Java
Douglas Harms
- 4.14. Phonetic Database for Automated Generating of Logopedic Exercises
Vania Sivakova, George Totkov, Dimitar Blagoev

DISCUSSIONS

13:30 – 14:30
Lunch – Mensa

SECTION 4 - SESSION 3**Friday 17th June 2011****14:30 – 16:00****HALL 6**

- 4.15. Semi-Automatic Testing of Program Codes in the High School Student Maturity Exam
Valentina Dagiene, Bronius Skupas
- 4.16. The Novice Problem in Computer Science
Ásrún Matthíasdóttir, Hrafn J. Geirsson
- 4.17. User Authoring in Learning-by-Doing Situations
Danail Dochev, Gennady Agre, Radoslav Pavlov
- 4.18. Schematic Diagram Editor and Simulator on Reliability and Diagnostics of Computer Systems
Galina Ivanova, Aneliya Ivanova, Ivailo Ivanov
- 4.19. Validation of a Multi-criteria Model Used to Evaluate M-Learning Applications Quality
Catalin Boja, Lorena Bătăgan, Adrian Visoiu
- 4.20. Wiki Usage in Team Assignments for Computer Science Students
Zoran Putnik, Zoran Budimac, Živana Komlenov, Mirjana Ivanovic, Klaus Bothe
- 4.21. Software System for E-publishing in Medical Domain
Žarko Bodroški, Srđan Škrbić, Živana Komlenov, Mirjana Ivanovic

DISCUSSIONS

**CompSysTech'12 -
PLOVDIV, BULGARIA**

**Mini-symposium
"ASTROINFORMATICS"**

Chair: **Dimo Dimov**
Co-chair: **Vasil Kolev**
Scientific Secretary: **Alexander Dimov**

**Friday 17th June 2011
10:15 – 11:00
Hall 3**

- 5.1. Compressed sensing of astronomical images: Orthogonal Wavelets – domain*
Vasil Kolev
- 5.2. Cumulative Approach Using Hough Transform to Segmentation of Star Chains in
Multi-Exposures Wide-Field Plate Images
Dimo Dimov, Aleksandar Dimov
- 5.3. Quantization Opportunities for Polyharmonic Subdivision Wavelets Applied to
Astronomical Images
Ognyan Kounchev, Damyan Kalaglarsky

DISCUSSIONS

**11:00 – 11:30
Coffee Break – Ground Floor**

**CompSysTech'12 -
PLOVDIV, BULGARIA**

Workshop
"SERVICE-ORIENTED AND CLOUD COMPUTING"

Chairs: **Sylvia Ilieva**
Co-chairs: **Milen Petrov**
Scientific Secretary: **Stavros Stavru**

Friday 17th June 2011
11:30 – 12:45
Hall 3

- 6.1. ADOPTA Model of Learner and Educational Game Structure
Adelina Aleksieva-Petrova, Milen Petrov
- 6.2. jQRSS: a jQuery plugin for RSS and Atom feeds parsing
Dessislava Petrova-Antonova, Rosen Simov
- 6.3. Managing Change in Self-Adaptive Software Systems
Stavros Stavru
- 6.4. Software Reliability Assessment via Fuzzy Logic Model
Olga Georgieva, Aleksandar Dimov
- 6.5. Towards Automated Robustness Testing Of Bpel Orchestrators
Denitsa Manova, Sylvia Ilieva, Francesca Lonetti, Antonia Bertolino, Cesare Bartolini

DISCUSSIONS

13:30 – 14:30
Lunch – Mensa

**CompSysTech'12 -
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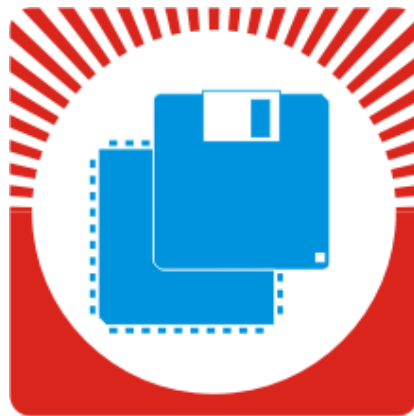
Friday 17th June 2011

16:00

HALL 2

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

CompSysTech'11



THE BEST PAPER

Friday 17th June 2011

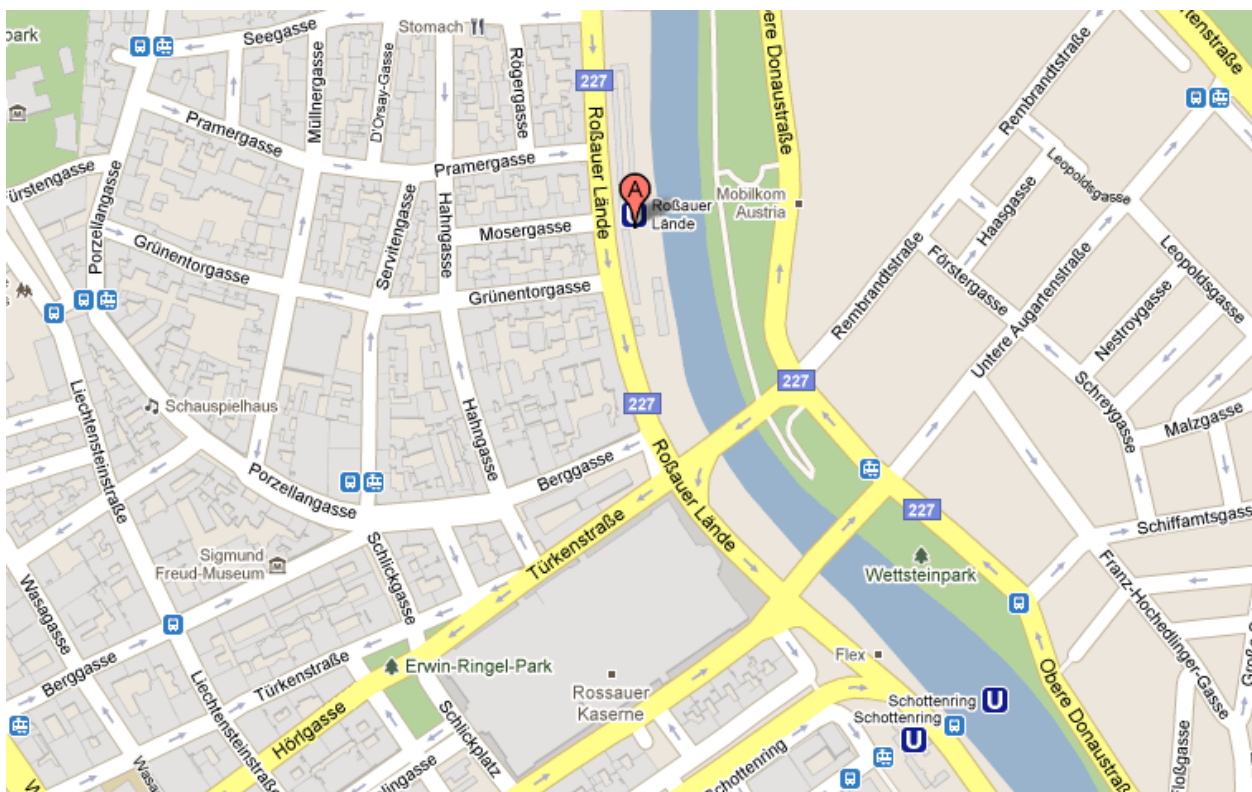
16:30

HALL 2

**Meeting
of the PROGRAMME COMMITTEE and ORGANIZING COMMITTEE
and the chairs of each sections
of the CompSysTech'11**

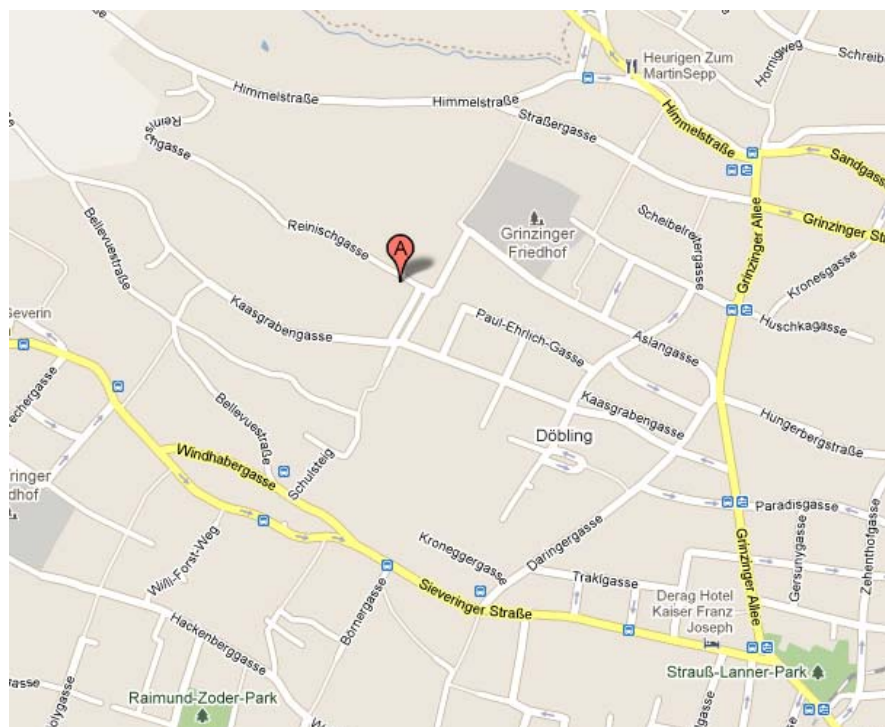
Thursday 16th June 2011
19:30
Social Evening
SUMMERSTAGE VIENNA
Donaukanal / U4-Station Rossauer Lände, 1090 Vienna

The Summerstage is located directly on the Danube canal in the centre of Vienna. It's part of Vienna's first wining & dining, culture, and fitness mile with beach volleyball courts along the 17.3 km (10.7 miles)-long canal.



Friday 17th June 2011
18:30
Chill-Out
HEURIGER ZAWODSKY
Reinischgasse 3, 1190 Vienna

The wine tavern **Zawodsky** is a traditional Heuriger, located in the green and vineyard-cloaked district of Grinzing in the northern stretches of Vienna. The tart wine served is best mixed with soda water (the common practice at a Heuriger), while the hearty buffet, which offers fresh spreads, breads, salads, and roast meats, requires more than one visit. There's occasional live music.



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