

CompSysTech'11

On June 16 and 17 June 2011 in Vienna hosted the twelfth in turn **International Conference on Computer Systems and Technologies CompSysTech'11**.



A welcome address to the participants in the Meeting on behalf of the President of Vienna University of Technology was presented by Univ.Prof. Dipl.-Ing. Dr.techn. Helmut Veith.



KEYNOTE SPEAKERS



JOHANN EDER

Alpen Adria University 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**

After the Plenary Session the participants had a social evening at the Summerstage Vienna.



The papers - a total of 100 - were allocated in the following sections:

- Computer Systems (Hardware) - 5;
- Computer Systems (Software) - 21;
- Application Aspects of Computer Systems and Technologies - 44;
- Educational Aspects of CST Computer Systems and Technologies - 22;

The Conference Programme also included a Mini symposium on Astroinformatics, which comprised of 3 papers and a Workshop on Service-Oriented and Cloud Computing, which comprised of 5 papers.

Scientists from 29 European countries participated in the conference with papers or as listeners.



Following nominations by the section chairpersons, the Programme Committee awarded a **"BEST PAPER"** crystal prize and honorary diplomas to the authors of the plenary reports as well as the following papers:

Section 1 "COMPUTER SYSTEMS (Hardware)":

- A Layout for Sparse Cube-Connected-Cycles Network
Ville Leppänen, Martti Penttonen, Martti Forsell

Section 2 "COMPUTER SYSTEMS (Software)":

- An Integrated Approach for RUP, EA, SOA and BPM Implementation
Juan Pablo Napoli, Kalinka Kaloyanova
- A Distributed Service Oriented System for GUI Map Generation
Paweł Brach, Jacek Chrzęszcz, Janusz Jabłonowski, Jakub Świątły
- Abstract model of an Object-Oriented Layer for distributed systems based on the DDS standard
Georgi Kirov, Valentin Stoyanov, Boyan Lazarov

- Encoding Watermark Numbers as Cographs using Self-inverting Permutations

Maria Chroni, Stavros D. Nikolopoulos

Section 3-A "APPLICATION ASPECTS OF CST":

- A parallel GPU implementation of an algorithm for determining directional distances

Mika Murtojärvi, Ville Leppänen, Olli S. Nevalainen

- Parallel Models for Sequence Alignment on CPU and GPU

Plamenka Borovska, Milena Lazarova

- **Discovering** Business Rules from Business Process Models

Thanh Thoa Pham Thi, Markus Helfert, Fakir Hossain, Thang Le Dinh

- System Implementation and Adaptation Evaluation in Adaptive Web-Based Systems

Bujar Raufi

Section 3-B "APPLICATION ASPECTS OF CST":

- VI-Navi: A Novel Indoor Navigation System for Visually Impaired People

Parth Mehta, Pavas Kant, Poojan Shah, Anil K. Roy

- Dynamic Bayesian Networks for Situational Awareness in the Presence of Noisy Data

Pascal Wiggers, Bionda Mertens, Leon J. M. Rothkrantz

- Obfuscating Plagiarism Detection - Vulnerabilities and Solutions

Tomáš Kučečka

- Reputation Lists and Groups to Promote Cooperation

J. Molina-Gil, C. Caballero-Gil, P. Caballero-Gil

Section 4 "EDUCATIONAL ASPECTS OF CST":

- Influence of Memory Modelling on the Simulation of Information and Knowledge Sharing in E-Learning Networks

Wladimir Bodrow, Markus Helfert, Martin Steinicke

- Personal Robots in CS1: Implementing the Myro API in Java

Douglas Harms

- Phonetic Database for Automated Generating of Logopedic Exercises

Vania Sivakova, George Totkov, Dimitar Blagoev

- The Novice Problem in Computer Science

Ásrún Matthíasdóttir, Hrafn J. Geirsson

Mini symposium on ASTROINFORMATICS:

- Compressed sensing of astronomical images: Orthogonal Wavelets – domain

Vasil Kolev

Workshop on Service-Oriented and Cloud Computing:

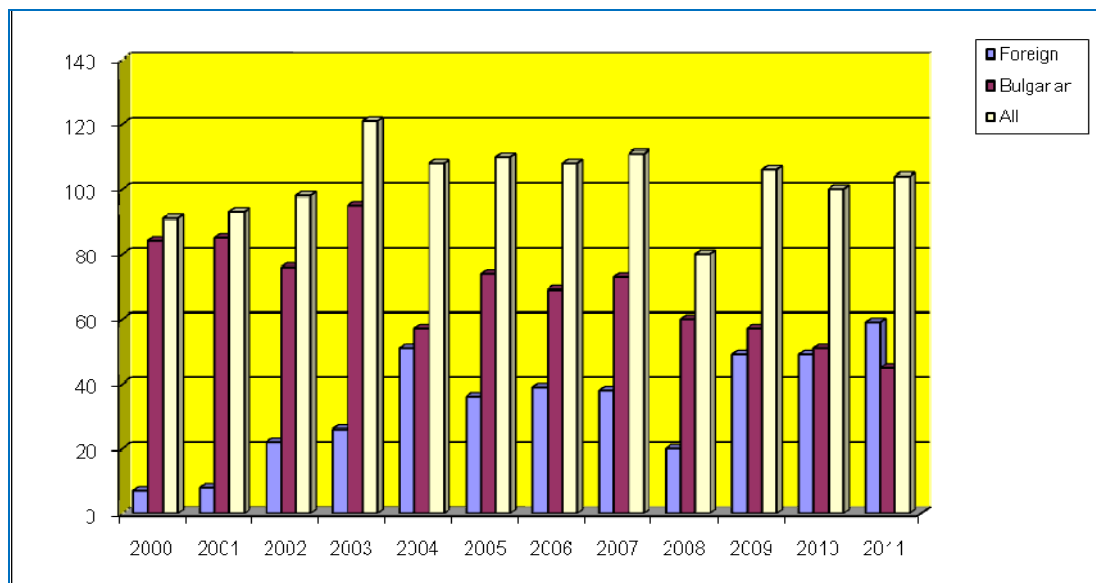
- Towards Automated Robustness Testing Of Bpel Orchestrators

Denitsa Manova, Sylvia Ilieva, Francesca Lonetti, Antonia Bertolino, Cesare Bartolini

The prizes were provided by the Conference sponsors and were handed out by Assoc. Prof. B. Rachev. The awarded papers will be offered for publishing in the "Automatics and Informatics".



The figure below represents the number of published papers by year.



In 2007, 2008, 2009, 2010 and 2011 the papers are published in the digital library of the Association for Computing Machinery (ACM).



Association for Computing Machinery

The screenshot shows the ACM Digital Library search results for 'CompSysTech'. The search bar at the top shows 'CompSysTech' with a search button. Below the search bar, it says 'Searching for: CompSysTech (start a new search)' and 'Found 828 within The ACM Guide to Computing Literature (Bibliographic citations from major publishers in computing)'. The results are listed in a table with columns for 'Refine your search', 'Search Results', 'Related Magazines', 'Related SIGs', and 'Related Conferences'. The first result is 'CompSysTech: ten years after the beginning...' by Boris Bachev, published in June 2009. The second result is 'Proceedings of the 9th International Conference on Computer Systems and Technologies and Workshop for PhD Students in Computing' by Boris Bachev and Angel Simionov, published in June 2008. The third result is 'Analysis and experimental study of an algorithm for automatic assignment of reviewers to papers' by Yordan Kalmukov, published in June 2007. The page also includes a 'REFINE YOUR SEARCH' section with filters for Keywords, People, Publications, and Conferences. At the bottom, there is a 'FEEDBACK' section and a 'Found 828 of 1,697,209' count.

The CompSysTech papers are indexed by SCOPUS.

The screenshot shows the Scopus website home page. The header includes the Scopus logo and navigation links like 'Hub', 'ScienceDirect', 'Scopus', 'SciTopics', and 'Applications'. Below the header, there is a banner for 'SciVerse Scopus Alerts mobile apps' available for iPhone, Blackberry, and Android devices. The main content area is divided into two columns. The left column contains a 'Welcome to Scopus' message, stating that Scopus is the largest abstract and citation database of research literature and quality web sources covering nearly 18,000 titles from more than 5,000 publishers. It also mentions that institutional access is required for full benefits and provides information on how to request access. The right column contains a 'Learn more' section with links to 'About Scopus', 'Scopus News', 'Demos and Tutorials', 'Content Coverage', 'Features and Functionality', 'Scopus Integration', 'Author Preview', and 'Contact us'. At the bottom of the page, there is a copyright notice: 'Copyright © 2011 Elsevier B.V. All rights reserved. SciVerse is a registered trademark of Elsevier Properties S.A., used under license. Scopus is a registered trademark of Elsevier B.V.'