INTERNATIONAL CONFERENCE
ON COMPUTER SYSTEMS AND TECHNOLOGIES
"CompSysTech'14"

On June 27 2014 the University of Ruse hosted the XV-th in turn **International Conference on Computer Systems and Technologies *CompSysTech'14***. The Conference was organized by THE ASSOCIATION FOR COMPUTING MACHINERY and by THE BULGARIAN ACADEMIC SOCIETY OF COMPUTER SYSTEMS AND INFORMATION TECHNOLOGIES and its OBJECTIVE is to intensify the information exchange of results in theoretical research and practical developments in this field.

CompSysTech'14 is organized under the patronage of:

- EUROPEAN COMMISSION - Education, Audiovisual and Culture Executive Agency;
- Bulgarian Ministry of Education and Science;
- Bulgarian Academy of Sciences;
- Bulgarian Chapter of IEEE Computer Society;
- Bulgarian Chapter of IEEE Communications Society.

Only papers with three favourable reviews from three members of the Programme Committee, which includes leading scientists from around the world, were allowed.

At the beginning of the conference the String Quartet "Cherkin" at the State Opera Ruse performed the Europe Anthem „Ode to Joy" by Beethoven.

The Plenary Session was opened with a greeting address from the Rector of the University of Ruse - Prof. Hristo Beloev, DSc.

Dear Guests, Dear Colleagues,

It is my pleasure to WELCOME you, some of you for a second time, to our city and to our university!

We highly appreciate the efforts of the Academic Society in Computing, of which the Department of Computer Systems and Technologies in Ruse is a member, to have an active scientific life. The national and international projects of the society are fully supported by the management of the University of Ruse.

It is our pleasure and honour to host the CompSysTech International Conference for the SIXTH time. Although this is only the 15th edition of this conference, it is already well known not only in Bulgaria, but in Europe too. The fact that today in this hall there are scientists from 35 countries, is an eloquent evidence for this. Another evidence for the attractive power and the level of the conference is the fact that for the last 7 years the CompSysTech papers have been published in the Digital Library of the Association for Computing Machinery, the most prestigious organization if the field of Computing, and are indexed by SCOPUS. The profile of the conference in Google Scholar is very impressive, too.

I wish all participants in the conference successful presentations, beneficial contacts and a pleasant stay in our beautiful Danube city.

The deputy chair of the Union of Automatics and Informatics, Assoc. Prof. Benislav Vanev, greeted the participants in the conference and awarded the chair of the organising committee the Gold medal „Prof. Asen Zlatarov".

The Plenary Session comprised of the following papers:
- VIRGINIO CANTONI
  University of Pavia, Italy
  Eye-tracking systems, research and applications
- ATANAS RADENSKI
  Chapman University, California, USA
  Big Data, High-Performance Computing and MapReduce ICT-base for Scientific Research
- HANNU JAAKKOLA
  Tampere University of Technology, Finland
  Open Data – Opportunities and Challenges

- ELENA MARINOVA
  President Musala Soft, BAIT Board member and Chair of Committee "Education"
  The top challenges of the software business today - quality and quantity of people. How can business and universities work it out together?
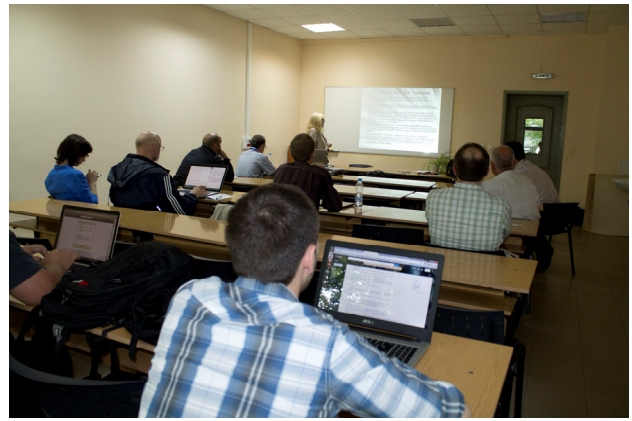

The papers - a total of 61 - were allocated in 8 sections:
- Hardware - 4;
- Computer Networks - 4;
- Image Processing & Computer Vision - 5;
- Data Mining, Information Retrieval & Natural Language Processing - 8;
- Simulation and Modelling. Statistical Analysis. Intelligent Systems – 7;
- Web Services and Cloud Computing - 5;
- Software Engineering - 6;
- The Youth and the ICT - 5;

The Conference Programme also included a Co-Event – Workshop "Advances in high performance information services for digital, multilingual education (AHPISDME)" which comprised of 17 papers.

Scientists from 35 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:

- **Session A "Hardware and Computer Networks":**
  - "IP Design for DIF and Integration in Nios II Systems: Averaging Filter"
    by Trifon Trifonov
  - "Monitoring Software for IP based Video Surveillance System"
    by Delyan Genkov
- **Session B "Image Processing & Computer Vision":**
  - "Virtual Co-location to Support Remote Assistance for Inflight Maintenance in Ground Training for Space Missions"
    by Dragos Datcu, Marina Cidota, Stephan Lukosch, David Martinez Oliveir and Mikael Wolff
- **Session C "Data Mining, Information Retrieval & Natural Language Processing":**
  - "Design and Analysis of Novel Similarity Measure for Clustering and Classification of High Dimensional Text Documents"
    by G.Suresh Reddy, Ananda Rao and Rajani Kanth
  - "A web search methodology for health consumers"
    by Marco Alfano, Biagio Lenzitti and Giosuè Lo Bosco
- **Session D "Simulation and Modelling. Statistical Analysis. Intelligent Systems":**
  - "Intraday Stock Forecasting"
    by Victor Louwers and Leon Rothkrantz
  - "Decentralised Control Optimisation for a Glass Furnace by SGA's"
    by Kumaran Rajarathinam, J. Barry Gomm, Karl Jones and Ahmed Saad Abdelhadi
- **Session E "Web Services and Cloud Computing":**
  - "Web service QoS specification in BPEL descriptions"
    by Krasimir Baylov, Dessislava Petrova-Antonova and Aleksandar Dimov
- **Session F "Software Engineering":**
  - "Can virtual reality be better controlled by a smart phone than by a mouse and a keyboard?"
    by Alena Kovárová and Maroš Urbančo

- **Session G "Advances in high performance information services for digital, multilingual education (AHPISDME)":**
  - "Increasing the Flexibility of Automated Concept Map Based Knowledge Assessment"
    by Maija Strautmane
  - "Creating Software Engineering Student Interaction Profiles for Discovering Gamification Approaches to Improve Collaboration"
    by Antti Knutas, Jouni Ikonen, Dario Maggiorini, Laura Ripamont and Jari Porras
  - "Academic dishonesty in a partially online environment: A survey"
    by Danijela Subotic and Patrizia Poscic
  - "Automatized Test Item Generation in Moodle"
    by Mariyana Raykova, Hristina Kostadinova and George Totkov
- **Session H "The Youth and the ICT":**
  - "Cells' Evolution"
    by Emil Indjev, Syuzan Feimova

The prizes were provided by the Conference sponsors and were handed out by Prof. Boris Rachev.

After the Session the participants took a tour around the University of Ruse and had a social evening at the Riga restaurant.

All the participants and guests of the conference share the opinion that its main goal "to intensify the information exchange of the results in theoretical research and practical developments in the field of Computing" has been widely achieved.

The proceedings have been published on paper and electronically on the conference Web site - **http://www.compsystech.org/.** All papers are in English, which is a premise for their popularization, referencing and quoting by other authors.

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INTERNATIONAL CONFERENCE
ON
COMPUTER SYSTEMS
AND
TECHNOLOGIES

CompSysTech'14 ®

27 June 2014
University of Ruse
BULGARIA

P R O C E E D I N G S

INTERNATIONAL CONFERENCE on COMPUTER SYSTEMS and TECHNOLOGIES
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15-th International Conference on Computer Systems and Technologies
CompSysTech'14
27 June 2014, Ruse, Bulgaria

Current status

CompSysTech'14 - Conference Programme

Published by

acm Association for Computing Machinery

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CompSysTech'14 is organized by

Bulgarian ACM Chapter

European Thematic Network "Future Education and Training in computing: How to Support Learning at Anytime Anywhere" (ETN FETCH)

JOHN ATANASOFF SOCIETY OF AUTOMATICS AND INFORMATICS

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Bibliometrics

CompSysTech's public profile on Google Scholar
(still partial)

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http://www.compsystech.org/index.php?cmd=gsPage&pid=index

From 2007 the papers are published in the digital library of the Association for Computing Machinery (ACM).

The CompSysTech papers are indexed by SCOPUS.

The conference was announced in all regional media.

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· Пл. Стоилов: Крайбрежната зона ще стане добро място зі

Международната научна конференция по компютърни системи и технологии CompSysTech'14 стартира днес в РУ

Проф. Ангел Смрикаров получи Златен медал „Проф. Асен Златаров" на Съюза по автоматика и информатика
akcent.bg | 27.06.2014 г.

XV-то издание на Международната научна конференция по компютърни системи и технологии CompSysTech'14 стартира на 27 юни. Над сто учени, обхванати в IV-та европейска тематична мрежа по компютинг, се включиха с доклади във форума. На тържественото откриване координаторът на проекта, проф. д-р Ангел Смрикаров, бе отличен от акад. дтн Васил Сгурев със Златен медал „Проф. Асен Златаров" и грамота на Съюза по автоматика и информатика за изключителни заслуги в утвърждаването на конференцията и приноса му за формирането и развитието на европейската академична мрежа по компютинг.

Пленарни доклади изнесоха проф. Вирджинио Кантони от университета в Павия, Италия, проф. Атанас Раденски от университета Чапман, САЩ, и проф. Ханну Яаакола от университета в Тампере, Финландия.

Г-жа Елена Маринова, президент на Мусала Софт представи новите изисквания на бизнеса към компютърните специалисти. Учените от 35 страни работят в 8 секции. Най-интересните доклади ще бъдат наградени с кристалии при THE BEST PAPER в края на форума, който продължава и на 28 юни.

От седем години докладите, изнесени на тази конференция, се публикуват във виртуалната библиотека на Асоциацията по компютри - най-авторитетната международна организация в областта на компютинга и се индексират от SCOPUS. Много впечатляващ е и профилът на конференцията в Google Sholar. Сборниците с доклади на конференцията се депозират в библиотеката на Конгреса на САЩ.

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