

**International Workshop  
Autonomic Computing and Automatic Control  
in Computer Systems (ACACCS)  
ACOMIN project results**

3-4 October 2013

Co-event of  
**INTERNATIONAL CONFERENCE  
AUTOMATICS AND INFORMATICS'2013**  
October 3-7, 2013, Sofia, Bulgaria

**P R O G R A M**

**Thursday, October 3<sup>th</sup>**  
*National House of Science and Technique*  
*Sofia, 108 Rakovski Str.*

**PLENARY TALKS – jointly with the International Conference  
Automatics and Informatics'2013**

**9.30 - 10.00 PLENARY SESSIONS 1**

**Place:** Hall 4

**Chairman:** Acad. V. Sgurev

Acad. Bl. Sendov

**John Atanasoff and Digital Computing**

**10.00 - 10.30 PLENARY SESSIONS 2**

**Place:** Hall 4

**Chairman:** Acad. V. Sgurev

Acad. K. Boyanov

**History of Computer Industry in Bulgaria**

**10.30 - 11.00 PLENARY SESSIONS 3**

**Place:** Hall 4

**Chairman:** Acad. Bl. Sendov

Acad. V. Sgurev

**On the Way to the Complex Propositional Logic**

**11.00 - 11.30 Coffee break**

**11.30 - 12.00 PLENARY SESSIONS 4**

**Place:** Hall 4

**Chairman:** Member corresp. of BAS M. Hadjiiski

Jacques Richalet

**Industrial applications of Predictive Functional Control**

**12.00 - 12.30 PLENARY SESSIONS 5**

**Place:** Hall 4

**Chairman:** Member corresp. of BAS M. Hadjiiski

František Čapkovič

**Cooperation of Agents in Complex Systems Based on Supervision**

**12.30 - 13.30 Lunch Break**

**13.30 - 15.30 SESSION 1 AComIn WORKSHOP**

**Place: Hall 2**

**Chairman: T. Stoilov/E. Nikolov**

H. Abouaïssa

**State Estimation for Traffic Flow Cell Transmission Model**

H. Haj Salem, N. Farhi, J. P Lebacque

**Risk Index Model Building for Real Time Crash Prediction on Urban Motorway Traffic**

A. Chariete, M. Bakhouya, J. Gaber, M. Wack

**Towards a Design Space Exploration Methodology for System On-Chip**

K. Stoilova, T. Stoilov, K. Nikolov

**Autonomic Computing Applications for Traffic Control**

**15.30 - 16.00 Coffee Break**

**16.00 - 18.20 SESSION 2 AComIn WORKSHOP**

**Place: Hall 2**

**Chairman: K.Stoilova/ T. Stoilov**

N. G. Nikolova, E. Nikolov

**Absorptive Repetitive Filters in the Control Systems - part I**

N. G. Nikolova, E. Nikolov

**Absorptive Repetitive Filters in the Control Systems - part II**

**PRESENTATIONS:**

Zhivko Angelov

**Dependencies identification in large data sets**

D. Borissova, I. Mustakerov

**Integrated structure of decision support system for predictive maintenance of engineering systems**

**Friday, October 4<sup>th</sup>**  
*National House of Science and Technique*  
*Sofia, 108 Rakovski Str.*

**PLENARY TALKS – jointly with the International Conference  
Automatics and Informatics'2013**

**10.00 - 10.30 PLENARY SESSIONS 6**

**Place: Hall 4**

**Chairman:** Acad. K. Boyanov

John Gustafson

**The Ten Fundamental Innovations of the Atanasoff-Berry Computer**

**10.30 - 11.00 PLENARY SESSIONS 7**

**Place: Hall 4**

**Chairman:** Acad. K. Boyanov

Carl Chang

**Growing out of ABC - the heart and soul of software engineering**

**11.00 - 11.30 PLENARY SESSIONS 8**

**Place: Hall 4**

**Chairman:** Acad. K. Boyanov

Otto Spaniol

**The JAVA story: Some final thoughts**

**13.30 - 15.30 SESSION 3 AComIn WORKSHOP**

**Place: Hall 2**

**Chairman:** E. Nikolov/ K. Stoilova

V. Stoilova

**Methods for Modelling Transport Traffic in Highways - I**

V. Stoilova

**Methods for Modelling Transport Traffic in Highways - II**

A. Yonchev, J. Koleva

**Modeling and Simulation of Transportation Process in an Open Pit Mine Using Arena Software**

E. Paunova

**Designing Games for Learning**

St. Dimitrov

**Electronic Information System for Subscription of Scientific Journal**

**15.30 - 16.00 Coffee Break**

**16.00 - 17.30 [SESSION 4 AComIn WORKSHOP](#)**

**Place: Hall 2**

**Chairman: T. Stoilov/ E. Nikolov**

**PRESENTATIONS:**

B. Vachova

**Advanced Methods for Knowledge Extracting of Complex Processes**

T. Balabanov

**Application of Genetic Algorithms for the Generation of PRNG (Pseudo Random Number Generator for generator) formulas**

V. Ivanov

**Software design tool for an automatic PicoBlaze type system development**

St. Mishinev

**Recent Achievements for Computer and Communication Network Management**

E. Trichkova

**An approach for quality assessment and effectiveness of web based information system**

J. Boneva

**Software for reports in business entities**

**17.45 [CLOSING](#)**

*Sponsors:*

 [AComIn](#) (Advanced Computing for Innovation, FP7 Capacity grant 316087)

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