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AComIn: Advanced Computing for Innovation

**FP7 Capacity Programme
Research Potential of Convergence Regions**

EVENT ORGANISATION REPORT

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Summary: Report about the organisation of the International Workshop
“Autonomic Computing and Automatic Control in Computer Systems”
(ACACCS), 3-4 October 2013, Sofia, Bulgaria

Status: Final report

Distribution: Public

Issue Date: October 2013

Start date of the project: 01/10/2012

Duration: 42 months



Report about ACACCS - 2013, an AComIn Supported Event

Name and type of the event:

International Workshop

Autonomic Computing and Automatic Control in Computer Systems (ACACCS)

3-4 October 2013, Sofia, Bulgaria

http://www.iict.bas.bg/acomin/news/3-4-Oct-2013-Program_Workshop-ACACCS.pdf

Place, dates:

Sofia, Federation of the Scientific Engineering Unions

3-4 October 2013

Programming and Organising Committees:

The International Workshop “Autonomic Computing and Automatic Control in Computer Systems” (ACACCS) was organised as a co-event of the International Conference “Automatics and Informatics” 2013. The submitted extended abstracts for workshop presentations were reviewed and approved by three independent reviewers. The Programme Committee of the main conference “Automatics and Informatics” 2013 consists of 93 members. The names of the PC members and reviewers can be found at <http://www.sai.bg> folder conferences, Automatics and Informatics.

The team behind ACACCS'13 consists of the following experts who serve as

Organising Committee:

Todor Stoilov, IICT-BAS, Bulgaria (Chair of the Organising Committee)

Krasimira Stoilova, IICT-BAS, Bulgaria

Emil Nikolov, Technical University of Sofia

Participants /number, types/:

From IICT: 14 researchers (T. Stoilov, K. Stoilova, I.Popchev, D. Borisova, B. Vachova, E. Paunova, St. Dimitrov, E. Trichkova, V. Ivanov, T. Balabanov, St. Mishinev , P.Stoyanov, J. Boneva and N. Ivanov)

Bulgarian participants outside IICT: 9 researchers

Foreign participants: 3 invited speakers

Invited participants: 3 invited speakers supported via AComIn

Short description:

ACACCS'13 has been held in two days: 3 and 4 October as co-event of the International Conference "Automatics and Informatics" 2013. The event contained 3 invited talks, 8 talks of Bulgarian IICT partners and 8 oral presentations of IICT staff members. Selected papers will be published in a post-Workshop edition.

The invited lecturers **Prof. H. Abouaïssa**, **Prof. J. P Lebacque** and **Prof. M. Wack**, supported by AComIn, gave the following presentations:

- **H. Abouaïssa** (Université Lille Nord France): "State Estimation for Traffic Flow Cell Transmission Model", an invited talk held on **3 October 2013, 13:30-14:00**
- **H. Haj Salem**, N. Farhi, J. P Lebacque (Institut Français des sciences et Technologies des Transport de l'aménagement et des réseaux (IFSTTAR) COSYS/GRETTIA): "Risk Index Model Building for Real Time Crash Prediction on Urban Motorway Traffic", an invited talk held on **3 October 2013, 14:00-14:30**
- Chariete, M. Bakhouya, J. Gaber, **M. Wack** (Universite de Technologie de Belfort Montbéliard) "Towards a Design Space Exploration Methodology for System On-Chip", an invited talk held on **3 October 2013, 14:30-15:00**

All talks were related to different aspects of Autonomic Computing and Automatic Control in Computer Systems.

The papers and presentations of the IICT experienced researchers, published with the support of AComIn in the Proceedings of the International Conference "Automatics and Informatics" 2013, were presented with slides acknowledging the project within the Workshop sessions.

Project leaflets were given to all Workshop participants as event materials. The AComIn logo is shown at the ACACCS'13 Programme, and all conference materials.

Scientific Programme:

The Scientific Programme of the Workshop is available at:

http://www.iict.bas.bg/acomin/news/3-4-Oct-2013-Program_Workshop-ACACCS.pdf

AComIn-related papers presented at the event and published after peer review:

After the Workshop six papers were selected and published in the Journal Cybernetics and Information Technologies (CIT):

1. H. Abouaïssa, V. Iordanova. Algebraic Methods for Traffic Flow Densities Estimation Cybernetics and Information Technology, No4, 2013, ISSN 1311-9702 , pp 5-17.

2. Nikolova N. , E. Nikolov. Absorptive repetitive filters with operators of generalized fractional calculus. Cybernetics and Information Technology, No4, 2013, ISSN 1311-9702, pp 42-53.
3. Salem,H., N. Farhi, J.P. Lebacque. Risk Index Model Building: Application for Field Ramp Metering Safety Evaluation on Urban Motorway Traffic in Paris. Cybernetics and Information Technology, No4, 2013, ISSN 1311-9702 , pp 33-41.
4. Stoilova, V., E. Nikolov, N. Nikolova. Analytical derive of second order model of payne from first order lighthil-whitham-richards model. Cybernetics and Information Technology, No4, 2013, ISSN 1311-9702, 54-62.
5. Stoilova, K., T. Stoilov, K. Nikolov. Autonomic Properties in Traffic Control. Cybernetics and Information Technology, No4, 2013, ISSN 1311-9702, pp 18-32.
6. Trichkova, E., K. Stoilova. An Approach for Quality Assessment and Effectiveness of a Web-Based System for Distance Learning. Cybernetics and Information Technology, No4, 2013, ISSN 1311-9702, pp 63-73.

Assessment of the added-value of the event to the AComIn scientific, networking and dissemination objectives:

The support provided by AComIn to ACACCS'13 enabled to cover the travel expenses and accommodation of the three renowned keynote speakers (all of them were grateful of the support of ACOMIN) who presented innovative aspects of the autonomic properties in Computer and Transportation Systems.

The participation of the above-mentioned three keynote speakers at the workshop was very important for the IICT seniors because in this way it became possible to listen to the state-of-the-art presentations, to discuss some aspects of their works and to establish contacts for next collaborations. Several ideas of future common work were discussed.

All ACACCS'13 participants were informed about AComIn, its objectives and results, and the possibility to apply for postdoctoral positions in the project. This improves the image of IICT as a regional Centre of Excellence in Autonomic Computing and Automatic Control in Computer Systems.

Changes in the financial planning of the AComIn support spending (if any):

There were no changes in the budget plan, approved by the AComIn Executive Board.

Reason for the changes during the actual event implementation: N/A

Event organiser:

15 October 2013

Todor Stoilov