

## October 2011 Issue

**TC-AAS newsletter** is produced as a focal point for news concerning the (related) activities of the IEEE Computer Society Autonomous and Autonomic Systems technical committee. If you have any items for the next issue please contact [r.sterritt@ulster.ac.uk](mailto:r.sterritt@ulster.ac.uk).

### TC Chair's Column

Following our successful 4<sup>th</sup> Annual **SASO** conference in Budapest, Hungary, SASO returned to the US for 2011 to the beautiful campus in Ann Arbor Michigan.

I would like to take this opportunity on behalf of the whole community and the SASO SC to thank our chairs and local organizers for a very successful conference: General chairs: Sven Brueckner, Jacobs Technology Inc., USA, Kurt Geihs, University of Kassel, Germany. Local chair: Rick Riolo, University of Michigan, USA. Finance chair: Howard Oishi, University of Michigan, USA. PC chairs: Jacob Beal, BBN Technologies, USA; Katharina Zweig, University of Heidelberg, Germany; Julie McCann, Imperial College London, UK. In these difficult economic times thanks must go to our sponsors Raytheon BBN Technologies and Jacobs as well as IEEE CS. Last but as usual far from least, many thanks to all the authors, presenters and participants for making SASO 2011 once more such an enjoyable and productive venue to share our research. A personal highlight for many was the conference dinner at the UM football stadium and the unique opportunity to walk on the field!!

**EASE** 2012's deadlines are very quickly approaching. The 2012 edition which will be the 9<sup>th</sup> Annual IEEE International Conference and Workshops on Engineering of Autonomic and Autonomous Systems and will be held in Nova Sad, Serbia, between 11<sup>th</sup>-13<sup>th</sup> April 2012. Please see the call for papers later in this newsletter and keep up to date with the deadlines @ <http://tab.computer.org/aas/ease/2012/>

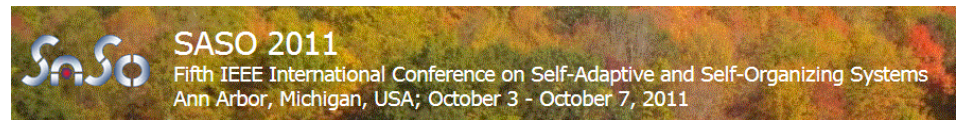
**Roy Sterritt, chair TC-AAS**  
[r.sterritt@ulster.ac.uk](mailto:r.sterritt@ulster.ac.uk)  
 10<sup>th</sup> October 2011

Previous newsletter is available at:  
<http://tab.computer.org/aas/newsletter/last.html>

### Join the Technical Committee on AAS or Renew for 2012 online

Details can be found at the web site <http://www.computer.org/tandc> where you can sign-up to TC-AAS and three others free <http://www.computer.org/portal/web/tandc/tolist> If you have already signed up, manage your membership at: <http://www.computer.org/services/teca>

## 5<sup>th</sup> Annual SASO Conference



SASO 2011 was the 5<sup>th</sup> formal IEEE sponsored meeting dedicated to foundations of a principled approach to engineering systems, networks and services based on self-adaptation and self-organization.



The meeting was hosted at the University of Michigan Life Sciences Building at Palmer Commons, Ann Arbor, Michigan.

Dr. Marc Steinberg gave a keynote on Self-Organizing and Self-Adaptive Methods for Autonomous Naval Systems: Research Progress, Lessons Learned, Future Directions and Prof. Scott Page (University of Michigan) a keynote on Self Organized Collective Wisdom (with a little help).

Workshops included: Socio-Aware Networked Computing Systems (SocioAware); Trustworthy Self-Organizing Systems (TSOS); Spatial Computing (SCW) and Challenges in achieving self-awareness in autonomous systems.

Tutorials included: Autonomic and Self-Aware Networks, and the Example of the Cognitive Packet Network; Modeling and Application of Self-organizing Systems Self-organizing Smart Camera Systems; How to Build Self-Modeling Systems.

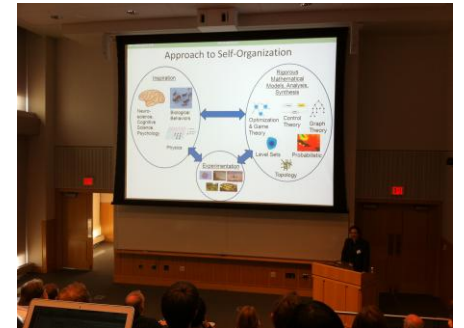
For more details see:  
[http://masi.cscs.lsa.umich.edu/SASO2011/index.php?menu=technical\\_program](http://masi.cscs.lsa.umich.edu/SASO2011/index.php?menu=technical_program)



For the IEEE CS Proceedings see:  
<http://www.computer.org/csdl/proceedings/sas/2011/4542/00/index.html>

or on IEEE Xplore:  
<http://ieeexplore.ieee.org/xpl/mostRecentIstue.jsp?punumber=6062618>

### Snapshots of SASO-2011



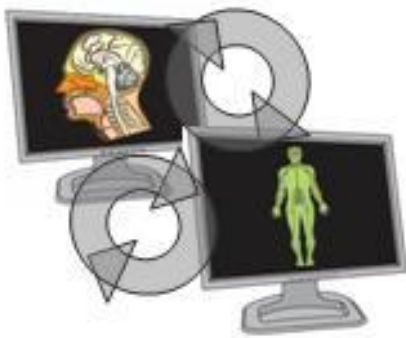
## IEEE EASe 2012

## April 11<sup>th</sup>-13<sup>th</sup> 2012

Novi Sad, Serbia



9<sup>th</sup> IEEE International Conference and Workshops on the Engineering of Autonomic & Autonomous Systems



### EASe 2012 Call for Papers

EASe 2012 will be the 9th formal IEEE sponsored meeting dedicated to formulating and advancing methods, techniques and tools for the engineering of autonomic and autonomous systems.

The conference is devoted to the analysis, design, development, deployment, and evolution of autonomic/self-managing and autonomous systems for computer-based systems. Such computer-based systems – also called cyber-physical systems – are characterized by functional as well as dependability requirements that mandate the tight integration of information processing and physical processes. Therefore, EASe aims to integrate several disciplines, including software engineering, systems engineering, control theory and so forth, into a complete systems self-managing engineering approach.

EASe 2012 addresses many facets that include system modeling; requirements engineering; simulation, verification and validation; architectures, software and hardware platforms, and infra structures; dependability, safety, and security; human computer interfacing; large-scale systems and system integration; engineering processes; evolution all for Autonomic/Self-Managing and Autonomous Systems.

The conference provides a bridge between industry and academia, blending academic research and industrial developments.

Reports of practical solutions, trends and new system characteristics for EASe, taking an integrated systems approach, may include self-managing application in domains such as:

- ⊕ Aeronautics,
- ⊕ Automotive and Telematics,
- ⊕ Industrial Automation and Process Control,
- ⊕ Medical Systems,
- ⊕ Smart Energy Systems,
- ⊕ Smart Sensor Networks
- ⊕ Environmental Systems,
- ⊕ Telecommunication
- ⊕ Internet Technology and Applications.

#### Workshops

As in the previous years, EASe 2012 offers to host workshops. Please contact the organizers (r.sterritt@ulster.ac.uk) for more information.

#### Poster Sessions

Posters and abstracts presenting work in progress are invited for a poster session. Accepted abstracts will be published in the proceedings. Graduate students are especially welcome to participate.

#### Doctoral Symposium

The Doctoral Symposium provides a forum for PhD candidates to present work in progress and get feedback from the research community while also publishing a full paper in the IEEE proceedings.

#### Industrial Track

The industrial track provides a forum for short papers on results of industrial research and development.

#### Submission of Papers

Full papers and Doctoral Symposium papers must be 6 to max 10 pages in Computer Society Format, posters 5 pages max and industrial track papers maybe 2 to 4 pages or a full paper 6-10 pages. Please see submission details.

For Full Papers and Doctoral Symposium Papers, the Program Committee will select a best paper award.

#### Important Dates

Submission of titles and abstracts  
01 December 2011

Submission of all papers  
05 December 2011

Notification of acceptance  
19 December 2011

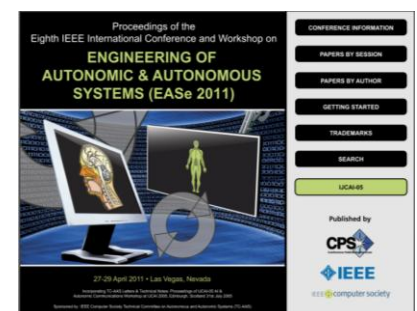
Camera-ready material for publication  
16 January 2012

Registration deadline for authors  
16 January 2012

Early registration deadline for non-authors  
22 February 2012

Submission dates for workshop papers may differ, so please check separate Calls for Papers on the workshop websites.

For guidance please see previous EASe proceedings:



<http://www.computer.org/csdl/proceedings/ease/2011/4380/00/index.html>

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