2011 Federated Conference on Computer Science and Information Systems (FedCSIS)

CONFERENCE REPORT

The 2011 edition of the Federated Conference on Computer Science and Information Systems (FedCSIS; www.fedcsis.org) was held in Szczecin, Poland on September 18-21, 2011. The scientific part consisted of, first, 15 conferences / workshops / symposia devoted to: (1) Advances in Artificial Intelligence and Applications, (2) Artificial Intelligence in Medical Applications, (3) Advances in Semantic Information Retrieval, (4) Computational Optimization, (5) Advances in Business ICT, (6) Interoperable Healthcare Systems, (7) Ubiquitous Home Healthcare, (8) Computer Aspects in Numerical Analysis, (9) Services Science, (10) Agent Based Computing: from Model to Implementation, (11) Multi-Agent Systems and Simulation, (12) Multimedia – Applications and Processing, (13) Risks Awareness and Management through Smart Solutions, (14) Advances in Programming Language, (15) Software Services. Second, four tutorials devoted to: Nature-Inspired Metaheuristic Algorithms for Global Optimization and Computational Intelligence (Xin-She Yang, National Physical Laboratory, UK), Practical cloud computing with Windows Azure Platform (Piotr Bubacz, University of Zielona Góra, Poland), Applying Model Driven Engineering Technologies in the Creation of Domain Specific Modeling Languages (Bruce Trask and Angel Roman, MDE Systems Inc, USA), Programming Agent Systems with Active Components (Alexander Pokahr and Lars Braubach, University of Hamburg, Germany). Third, Summer School on Service Science and Research Methods (which took place on September 19-23).

Keynote presentations were delivered by:

- Prof. Maria Orłowska, Secretary of State, Ministry of Science and Higher Education, Poland, *Opening Address*

- Bohdan Macukow, Department of Computer Science and Numerical Methods, Warsaw University of Technology, Poland, *What is Artificial Intelligence?*

- Mike Hinchey, Lero – the Irish Software Engineering Research Centre, University of Limerick, Ireland, *Evolving Critical Systems*

- Andrzej Skowron, Institute of Mathematics, Warsaw University, Poland, *Rough Sets and Complex Vague Concepts*

FedCSIS was organized by the Polish Information Processing Society together with the Systems Research Institute Polish Academy of Sciences, the Wrocław University of Economics and the University of Szczecin, under the auspices of Prof. Barbara Kudrycka, Minister of Science and Higher Education, and Prof. Michał Kleiber,

President of Polish Academy of Sciences. Technical co-sponsors of FedCSIS included: (1) IEEE Region 8, (2) Computer Society Chapter, Poland, (3) Gdańsk Computer Society Chapter, Poland, (4) Gesellschaft für Informatik, (5) Asociación de Técnicos de Informática, (6) Naukowe Towarzystwo Informatyki Ekonomicznej. Furthermore, in addition to the general FedCSIS technical collaborators, the following organizations were involved in organization of its individual events. The International Symposium on Advances in Artificial Intelligence and Applications – technically co-sponsored by World Federation of Soft Computing, European Neural Network Society, Poland Chapter of the IEEE Computational Intelligence Society, Polish Neural Networks Society. Workshop on Computer Aspects of Numerical Algorithms – technically co-sponsored by the Society for Industrial and Applied Mathematics. Furthermore, the Workshop on Agent Based Computing: from Model to Implementation VII, and the 5th International Workshop on Multi-Agent Systems and Simulation, were jointly organized in technical cooperation with the EU COST Action IC0801 Agreement Technologies. Finally, the 3rd Workshop on Software Services: Semantic-based Software Services was organized within the framework of the EU project SPRERS. Polish Ministry of Science and Higher Education and Intel have sponsored the conference.

This year's Symposium on Advances in Artificial Intelligence and Applications (AAIA) was devoted to the celebration of the 65th Birthday of Prof. Bohdan Macukow. During the AAIA 2011, the Prof. Zdzisław Pawlak prize for the best paper was awarded for the sixth time. This years winners were: Dmitrij Zatuchin "Problem of website structure discovery and quality valuation" as the Best Student Paper, and Mariusz Paradowski "Automatic Image Annotation by Image Fragment Matching" as the Best Paper. These awards were sponsored by the Polish Information Processing Society.

English was the exclusive conference language. In 2011, FedCSIS attracted 250 papers. Out of submitted contributions, 117 articles were accepted as full papers (acceptance rate of 46.8%), and 30 articles were accepted as short papers. Out of 147 texts accepted for publication, 46 articles came from Poland, while the remaining 101 from abroad (representing more than 34 countries from all continents). The conference attracted total 220 registered participants, out of which 23 were students of the Summer School on Service Science and Research Methods.

Conference materials were published on Pen Drives (ISBN 978-83-60810-35-4). After the conference these materials will be included in the IEEE Digital Library (IEEE Catalog Number CFP1185N-ART) – one of three biggest repositories of academic publications in computer science – assuring a worldwide reach. It should be stressed that each year the acceptance rate for texts published in post-conference Special Issues of international journals is below 30%.

In a similar way as in the past, best papers accepted at FedCSIS (their updated and extended versions) will be published in Special Issues of international journals, such as:

Transactions on Computational Collective Intelligence, IEEE Transactions on Industrial Informatics, Informatica (Slovenia), International Journal of Medical Imaging and Health Informatics, Electronic Markets - The International Journal on Networked Business, International Journal of Information Systems in the Service Sector, International Journal of Service Science, Management, Engineering, and Technology, Multiagent and Grid Systems Journal, Journal of Network and Computer Applications, IJCSA: International Journal of Computer Science & Applications, ComSIS Journal, Scalable Computing; Practice and Experience.

Submitted by the FedCSIS organizers,

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