



In 2018, it was hosted in Algarve, Portugal the 5th edition of the Applied Computing International Conference (AC 2008) from 10 to 13 April.

This event was organized by the International Association for Development of the Information Society (IADIS) and supported by FCT (Fundação para a Ciência e a Tecnologia).

The purpose of this event was to address the main issues of regarding the applied computing context and related areas. The following areas were object of paper and poster submissions: Agent Systems and Applications; Algorithms; Applied Information Systems; Case Studies and Applications; Communications; Data Mining; Database Systems; E-Commerce Theory and Practice; Embedded Systems; Evaluation and Assessment; Global Tendencies; Information Retrieval; Intelligent Systems; Mobile Networks and Systems; Multimedia; Networking; Object Orientation; Parallel and Distributed Systems; Payment Systems; Programming Languages; Protocols and Standards; Semantic Web; Software Engineering; Storage Issues; Technologies for E-Learning; Wireless Applications; WWW Applications; WWW Technologies; Ubiquitous Computing; Usability Issues; Virtual Reality; Visualization; XML and other Extensible Languages.



The 2008 Conference had 217 submissions from more than 37 countries. Each submission was anonymously reviewed by at least four independent reviewers, to ensure the final high standard of the accepted submissions. Out of the papers submitted, 39 got blind referee ratings that published them as full papers, which indicated that the acceptance rate was below 20 %. Some other submissions were published as short papers and posters.

Extended versions of the best papers were selected to be published in:

- ❖ the IADIS International Journal on Computer Science and Information Systems (IJCSIS). ISSN 1646-3692.



The conference, in addition to the opening and closing sessions, presentation of full papers, reflection papers, short papers and posters also included one keynote presentation given by Dr. Marcin Paprzycki, Systems Research Institute Polish Academy of Science, Poland and a conference tutorial given by Dr. Marcin Paprzycki and Dr. Maria Ganzha, Systems Research Institute Polish Academy of Science, Poland.

Keynote Presentation:

“AGENT-BASED VIRTUAL ORGANIZATION”



by Marcin Paprzycki Systems Research Institute Polish Academy of Science, Poland

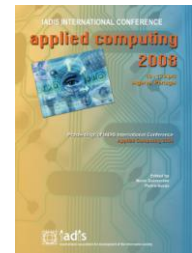
Conference Tutorial:

“INTRODUCTION TO SOFTWARE AGENTS AND THEIR APPLICATIONS”



by Marcin Paprzycki and Maria Ganzha, Systems Research Institute Polish Academy of Science, Warsaw, Poland

The Applied Computing 2008 conference proceedings was published in hard copy (Book ISBN: 978-972-8924-56-0) and also in CD-ROM (ISBN: 978-972-8924-52-2) by IADIS Press.



Program Committee Members:

Abdelhamid Mellouk, University of Paris XII, France

Abdelmajid Kadri, ENSAM, France

Achim Basermann, NEC Europe Ltd., Germany

Adam Adamopoulos, Democritus University of Thrace, Greece

Adam Wong, Deakin University, Australia

Adam Wojciechowski, Poznan University of Technology, Poland

Aijuan Dong, Hood College, USA

Alexander Lazovik, University of Trento, Italy

Ali Asghar Shiri, University of Alberta, Canada

Ali Masoudi-Nejad University of Tehran, Iran

Anders Gidenstam, Max Planck Inst. For Comp. Science, Germany

Andreas Andreou, University of Cyprus, Cyprus

Andreas Wombacher, University of Twente, The Netherlands

Ana María Sánchez Montero. Universidad Carlos III de Madrid, Spain

Anna Maddalena, Università degli Studi di Genova, Italy

Annamaria Chiasera, University of Trento, Italy

Antonino Sabetta, ISTI-CNR, Italy

Antonio Bucchiarone, IMT of Lucca, Italy

Anton Michlmayr, Vienna University of Technology, Austria

Arndt Bode, Technical University München, Germany

Arno Wacker, University of Duisburg-Essen, Germany

Aurelio Bermúdez, Universidad de Castilla-La Mancha, Spain

Azzedine Benameur, SAP Research, France

Baoying Wang, Waynesburg University, USA

Beda Christoph Hammerschmi, Institute of Information Systems, Germany

Bin Luo, Anhui University, China

Blanca Caminero, Universidad de Castilla-La Mancha, Spain

Boris Epstein, The Academic College of Tel-Aviv-Yaffo, Israel

Boris Koldehofe, University of Stuttgart, Germany

Brian Kirkegaard, Royal School of Library & Information Science, Denmark

Carmen Ruiz, Universidad de Castilla-La Mancha, Spain

Chao Peng, Japan Advanced Institute of Science and Technology (JAIST), Japan

Ching-Hsien Hsu, Chung Hua University, Taiwan

Daniel S. Katz, Louisiana State University, USA

Daniele Radicioni, Turin University, Italy

Daoqiang Zhang, Nanjing University of Aeronautics and Astronautics, China

Dick Stenmark, Göteborg University, Sweden

Dimitris Kalles, Hellenic Open University, Greece

Dirk Koschützki, IPK, Germany

Djamila Ouelhadj, University of Nottingham, United Kingdom

Dongmei Ren, IBM Silicon Valley Lab, USA

Dragoljub Pokrajac, Delaware State University, USA

Eda Marchetti, ISTI-CNR, Italy

Efstratios Georgopoulos, Technical University of Kalamata, Greece

Elarbi Badidi, United Arab Emirates University, United Arab Emirates

Elie El Khoury, University of Groningen, The Netherlands

Emmanuel Karapidakis, Department of Electronics / T.E.I. of Crete, Greece

Enrique Árias, Universidad de Castilla-La Mancha, Spain

Falk Schreiber, IPK, Germany

Farid Naït-Abdesselam, University of Lille, France

Federico Bergenti, University of Parma, Italy
Filippos Azariadis, University of the Aegean, Greece
Florian Rosenberg, Vienna University of Technology, Austria
Fotis Liarokapis, Coventry University, UK
Francesca Lonetti, ISTI-CNR, Italy
Francesca Martelli, University of Pisa, Italy
Francisco Garcia Peñalvo, University of Salamanca, Spain
Francisco Parreño Torres, Universidad de Castilla-La Mancha, Spain
Ganna Frankova, University of Trento, Italy
Gareth Jones, Dublin City University, Ireland
Georgina Gaughan, School of Computing, Dublin City University, Ireland
Giacomo Cabri, Università di Modena e Reggio Emilia, Italy
Gilles Hubert, Université Paul Sabatier, France
Gongzhu Hu, Central Michigan University, USA
Gregor Schiele, University of Mannheim, Germany
Grigorios Beligiannis, University of Ioannina, Greece
Guadalupe Ortiz Bellot, University of Extremadura, Spain
Guglielmo De Angelis, Istituto di Scienza e Tecnologie dell'Informazione "Alessandro Faedo", Italy
Hai Jin, Huazhong University of Science and Technology, P. R. China
Hamid Arabnia, University of Georgia, USA
Hind Castel, Institut National des Télécommunications, France
Holger D. Hofmann, ekaabo, Germany
Hongwu Ma, Edingburgh University, Germany
Imad Rahal, College of Saint Benedict | Saint John's University, USA
Ina Koch, Technical University of Applied Sciences Berlin, Germany
Ivan Jelínek, Czech Technical University, Czech Republic
Jalel Benothman, University of Versailles, France
Jason Hung, Overseas Chinese Institute of Technology, Taiwan
Jerry Hsi-Ya Chang, Nat'l Center for High Performance Computing, Taiwan
Jiann-Liang Chen, National Dong Hwa University, Taiwan
Jie Hu, St Cloud State University, USA
Jie Tao, Universität Karlsruhe, Germany
Jinghua Gao, ISTI-CNR, Italy
Jixin Ma, Greenwich University, UK
Jo Abrantes, University of Wollongong, Australia
Johannes Meinecke, University of Karlsruhe, Germany
Jörg Hähner, University of Hannover, Germany
José Manuel Molina López, Universidad Carlos III de Madrid, Spain
José M Peña, Technical University of Madrid, Spain
Juan J. Pardo, Universidad de Castilla-la-Mancha, Spain
Juan José Sánchez Peña, Universidad de Alcalá, Spain
Juan Manuel Fernández Luna, University of Granada, Spain
Julian Padget, University of Bath, UK
Julio Calvo, Universidad de Alcalá, Spain
Ken Barker, University of Calgary, Canada
Koen Bertels, TU Delft, The Netherlands
Kuan-Ching Li, Providence University, Taiwan
Lynda Mokdad, Université Paris Dauphine, France
Manuel E. Acacio Sánchez, Universidad de Murcia, Spain
Marco De Gemmis, University of Bari, Italy
Marcus Handte, University of Bonn, Germany
Maria Damiani, Università degli Studi di Milano, Italy
María N. Moreno García, Universidad de Salamanca, Spain
Mario Donato Marino, Universidade de Sao Paulo, Brazil
Martin Fredriksson, Blekinge Institute of Technology, Sweden
Martin Knahl, University of Plymouth, United Kingdom
Matthias Lange, Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Germany
Max Chevalier, Université de Toulouse, France
Mei-Ling Shyu, University of Miami, USA
Mercedes G. Merayo, Universidad Complutense de Madrid, Spain
Miguel Angel Patricio Guisado, Universidad de Alcalá, Spain
Min-Ling Zhang, HoHai University, China
Miroslav Bures, Czech Technical University, Czech Republic
Miroslaw Staron, IT University of Göteborg, Sweden
Nashat Mansour, Lebanese American University, Lebanon
Natallia Kokash, University of Trento, Italy
Nataliya Rassadko, Università degli Studi di Trento, Italy
Necip Sahinkaya, University of Bath, UK
Nikola Stojanovic, University of Texas at Arlington, USA
Nikolaos Sapidis, University of the Aegean, Greece
Olivier Teste, Université Paul Sabatier, France
Ouri Wolfson, University of Illinois at Chicago, USA

Pascal Lorenz, University of Haute Alsace, France
Paul EL Khoury, SAP Research, France
Pedro García, Universidad de Castilla-La Mancha, Spain
Pierre Busnel, Sherbrooke University, Canada
Phuong Hoai Ha, University of Tromsø, Norway
Qin Ding, East Carolina University, USA
Quan Thanh Tho, Hochiminh City University of Technology, Vietnam
Rafa Al-Qutaish, Applied Science University in Amman, Jordan
Rafael Casado, University of Castilla-La Mancha, Spain
Rami Yared, Japan Advanced Institute of Science and Technology (JAIST), Japan
Raúl Suárez, Universitat Politècnica de Catalunya, Spain
Richard Lai, La Trobe University, Australia
Robert Wrembel, Poznan University Of Technology, Poland
Rodrigo Fernandes de Mello, Universidade de Sao Paulo, Brazil
Ruy Jauregui, BioBase, Germany
Sergey Peigin, Israel Aircraft Industries, Israel
Sharon Cox, University of Central England, United Kingdom
Shu-Ching Chen, Florida International University, USA
Simon Richir, ENSAM, France
Sotirios Terzis, University of Strathclyde, United Kingdom
Spyros Vosinakis, University of the Aegean, Greece
Stefanos Mavromoustakos, School of Computer Science and Engineering Cyprus College, Cyprus
Steffen Neumann, Leibniz Institute of Plant Biochemistry, Germany
Stéphane Maag, National Institute of Telecommunications, France
Susumu Goto, Kyoto University, Japan
Tarek Bejaoui, Mediatron, Sup'Com, Tunisia
Ting-Wei Hou, National Cheng-Kung University, Taiwan
Tony Gorschek, Blekinge Institute of Technology, Sweden
Urszula Markowska-Kaczmar, Wroclaw University of Technology, Poland
Vassilis Delis, Research Academic Computer Technology Institute, Greece
Victor Robles, Technical University of Madrid, Spain
Vincenzo Deufemia, Università di Salerno, Italy
Wenbin Jiang, Huazhong University of Science and Technology, China
Wenbing Tao, Huazhong University of Science and Technology, China

Xiang Fu, Georgia Southwestern State University, USA
Xiao-Lin Li, Nanjing University, China
Xiaoyang Tan, Nanjing University of Aeronautics and Astronautics, China
Xinlian Liu, Assistant Professor of Hood College, USA
Yoshifumi Manabe, NTT Cyber Space Laboratories, Japan
Zhi-Hua Zhou, Nanjing University, China

AUXILIARY REVIEWERS

David Levine, University of Texas at Arlington, USA
Gregorio Diaz Descalzo, Universidad de Castilla-La Mancha, Spain
Mario Giacobini, Turin University, Italy
Matthew Wright, University of Texas at Arlington, USA
Olga Zlydareva, University of Trento, Italy