



The 1st edition of the Applied Computing series of International Conferences was hosted in Lisbon, Portugal, during 23-26 March, 2004.

The Applied Computing 2004 (AC 2004) was organized by the International Association for Development of the Information Society (IADIS).

The main purpose of this conference was to address the main issues of concern within the applied computing area and related fields. This conference's topics were divided into the following: Agent Systems and Applications, Algorithms, Applied Information Systems, Bioinformatics, Case Studies and Applications, Communications, Data Mining, Database Systems, E-Commerce Theory and Practice, Embedded Systems, Evaluation and Assessment, Global Tendencies, Grid Computing, Information Retrieval, Intelligent Systems, Mobile Networks and Systems, Multimedia, Networking, Object Orientation, Parallel and Distributed Systems, Payment Systems, Programming Languages, Protocols and Standards, Security, 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



This first edition received 250 submissions from more than 30 countries. Each submission was anonymously reviewed by three independent reviewers, to ensure the final high standard of the accepted submissions. Out of the papers submitted, 77 received blind referee ratings that signified acceptability for publication as full papers, while some others were published as short papers, reflection papers and posters /demonstrations.

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

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



In this first edition, the Conference Program featured an opening and closing sessions, parallel paper sessions and two Keynote Presentations by Professors Norbert A. Streitz, AMBIENTE - Smart Environments of the Future, Fraunhofer IPSI, Darmstadt, Germany and Marcin Paprzycki, Computer Science Department, Oklahoma State University, Tulsa, Oklahoma, USA and Mathematics and Computer Science, Adam Mickiewicz University, Poznań, Poland.

Keynote Presentation

“AMBIENT AND UBIQUITOUS COMPUTING: SMART ARTEFACTS AND THE DISAPPEARING COMPUTER”



by Dr. Norbert Streitz, AMBIENTE - Smart Environments of the Future, Fraunhofer IPSI, Darmstadt, Germany

Keynote Presentation:

“SOFTWARE AGENTS IN THE REAL WORLD”



by Dr. Marcin Paprzycki, Computer Science Department, Oklahoma State University, Tulsa, Oklahoma, USA and Mathematics and Computer Science, Adam Mickiewicz University, Poznań, Poland

The conference proceedings of the Applied Computing 2004 was published in hard copy (Book ISBN: 972-98947-3-6) and also in CD-ROM by IADIS Press.



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