ARTIFICIAL INTELLIGENCE APPLICATIONS AND INNOVATIONS

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- Open conferences;
- Working conferences.

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Foreword

It is our pleasure to welcome you to the Proceedings of AIAI 2006, the 3rd IFIP Conference on Artificial Intelligence Applications & Innovations being held from 7th till 9th of June, in Athens, Greece. Artificial Intelligence applications build on a rich and proven theoretical background to provide solutions to a wide range of real life problems. The ever expanding abundance of information and computing power enables researchers and users to tackle highly interesting issues for the first time, such as applications providing personalized access and interactivity to multimodal information based on user preferences and semantic concepts or human-machine interface systems utilizing information on the affective state of the user. The purpose of the 3rd IFIP Conference on Artificial Intelligence Applications and Innovations (AIAI) is to bring together researchers, engineers and practitioners interested in the technical advances and business and industrial applications of intelligent systems. AIAI 2006 is focused on providing insights on how AI can be implemented in real world applications.

The response to the ‘Call for Papers’ was overwhelming, attracting submissions from 23 countries. The task of the Technical Program Committee was very challenging putting together a Program containing 87 high quality contributions. The collection of papers included in the proceedings offer stimulating insights into emerging applications of AI and describe advanced prototypes, systems, tools and techniques. AIAI Proceedings will interest not only academics and researchers, but IT professionals and consultants by examining technologies and applications of demonstrable value.

Eight (8) Special Sessions dedicated to specific AI applications are affiliated within the AIAI 2006 conference:

- Adaptive Learning Systems Engineering (organized by Symeon Retalis, Andreas Papasalouros and Kostas Siassiakos)
- Advances in Artificial Intelligence for Integrated Surveillance and Monitoring Systems (organized by Dimitris Vergados and Christos Anagnostopoulos)

- Computational Intelligence in Software Engineering (organized by Andreou Andreas and Efstratios Georgopoulos)
- Computational Intelligence in Medical Imaging (organized by Efthymoulos Kyriacou and Ilias Maglogiannis)
- Digital Rights Management Techniques and Interoperability of Protection Tools (organized by Sofia Tsekeridou)
- Emerging Multimodal Interfaces (organized by John Soldatos, Dimitris Tzovaras and Kostas Karpouzis)
- Intelligent Analysis of Medical and Biological Data (organized by Vasileios Megalooikonomou and Despina Kontos)
- Semantics in Multimedia Analysis and Natural Language Processing (organized by Anastasios Delopoulos, Vangelis Karkaletsis, George Paliouras and Manolis Wallace)

The wide range of topics and high level of contributions will surely guarantee a very successful conference. We express our special thanks to all who have contributed to the organization and scientific contents of this conference, first to the authors of the papers, then to the special session organizers and finally to the reviewers and members of the Program and Organization Committees.

June, 2006

AIAI 2006 Conference Chairs:

Ilias Maglogiannis, University of Aegean, Greece,
Kostas Karpouzis, ICCS/NTUA, Greece,
Max Bramer, University of Portsmouth, UK

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AIAI 2006 conference is co-organized by the Department of Information and Communications Systems Engineering of the University of Aegean and Athens Information Technology (AIT). AIAI 2006 is the official conference of WG12.5 "Artificial Intelligence Applications" working group of IFIP TC12 the International Federation for Information Processing Technical Committee on Artificial Intelligence (AI).

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