

Special issue on applied intelligent information systems

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The 21st IEA/AIE 2008 conference launched a new decade of this well known series of international scientific events. It was hosted by Wrocław University of Technology, Poland, on June 18–20 2008 and organized by the Institute of Informatics, Wrocław University of Technology, in cooperation with the International Society of Applied Intelligence (ISAI).

The Program Committee received 302 papers from 52 countries. Each paper was sent to at least three Program Committee members for review. Although the general quality of these submissions was very high, only the 90 best papers were selected for oral presentation and publication in the proceedings. The papers in the proceedings covered the following topics: computer vision, fuzzy systems applications, robotics, manufacturing, data mining & knowledge discovery, neural networks, machine learning, natural language processing, internet applications, e-learning, heuristic search, application systems, agent-based system, evolutionary and genetic algorithms, knowledge management, and other applications. These papers highlight new trends and frontiers of applied artificial intelligence and show how new research could lead to future and innovative applications.

The conference proceedings were traditionally published in Springer LNAI as a volume number 5027 (2008). Addi-

tionally, selected and revised high quality papers from those not accepted to LNAI proceedings were invited to be included in the edited book *New Challenges in Applied Intelligence Technologies*, published as *Studies in Computational Intelligence*, vol. 134 (Springer).

Due to the high quality of accepted submissions, the Conference Organizers decided to invite a select number of papers personally presented at the conference to be expanded and revised for possible inclusion into the special issue on Applied Intelligent Information Systems for the International Journal of Applied Intelligence.

This special issue consists of 6 extended versions of the best papers presented at IEA-AIE 2008. These submissions have been peer reviewed and revised to guarantee the highest quality.

The Guest Editors would like to thank the Reviewers for their valuable reviews which helped the authors to improve their papers. Special thanks go to Prof. Moonis Ali for his kind support in publishing this issue.

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