

Moonis Ali
Floriana Esposito (Eds.)

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Innovations in Applied Artificial Intelligence

18th International Conference on
Industrial and Engineering Applications of
Artificial Intelligence and Expert Systems, IEA/AIE 2005
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Lecture Notes in Artificial Intelligence 3533

Edited by J. G. Carbonell and J. Siekmann

Subseries of Lecture Notes in Computer Science

Preface

*“Intelligent systems are
those which produce
intelligent offsprings.”*

AI researchers have been focusing on developing and employing strong methods that are capable of solving complex real-life problems. The 18th International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2005) held in Bari, Italy presented such work performed by many scientists worldwide.

The Program Committee selected long papers from contributions presenting more complete work and posters from those reporting ongoing research. The Committee enforced the rule that only original and unpublished work could be considered for inclusion in these proceedings.

The Program Committee selected 116 contributions from the 271 submitted papers which cover the following topics: artificial systems, search engines, intelligent interfaces, knowledge discovery, knowledge-based technologies, natural language processing, machine learning applications, reasoning technologies, uncertainty management, applied data mining, and technologies for knowledge management. The contributions oriented to the technological aspects of AI and the quality of the papers are witness to a research activity clearly aimed at consolidating the theoretical results that have already been achieved. The conference program also included two invited lectures, by Katharina Morik and Roberto Pieraccini.

Many people contributed in different ways to the success of the conference and to this volume. The authors who continue to show their enthusiastic interest in applied intelligence research are a very important part of our success. We highly appreciate the contribution of the members of the Program Committee, as well as others who reviewed all the submitted papers with efficiency and dedication. Two reviewers evaluated each paper to assure the high quality of the accepted papers.

The Co-chairs, Donato Malerba and Giovanni Semeraro, deserve our gratitude. A special thanks goes to the members of the Organizing Committee, Nicola Fanizzi and Stefano Ferilli, as well as to Nicola Di Mauro and Teresa Basile who worked hard at solving problems before and during the congress. We extend our sincerest thanks to CIC Services staff for their contribution.

We wish to thank the Dipartimento di Informatica of the University of Bari for encouraging and supporting us in organizing the event. The financial support of the University of Bari, Italy, which partially covered the publication costs of this book, is gratefully acknowledged. We also extend our appreciation to

President Denise Trauth and Provost Perry Moore of Texas State University-San Marcos for their support of this conference.

Bari, June 2005

Moonis Ali
Floriana Esposito

Organization

IEA/AIE 2005 was organized by the Department of Computer Science, University of Bari.

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