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Distributed Computing, Artificial Intelligence, Bioinformatics, Soft Computing, and Ambient Assisted Living

10th International Work-Conference
on Artificial Neural Networks, IWANN 2009 Workshops
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Proceedings, Part II

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In memoriam of Prof. Dr. José Mira,
advocate of scientific research on the interplay
between natural and artificial computation,
Co-chair of IWANN from 1991 to 2005,
and friend.

Preface

This volume (II) contains all publications accepted for the symposiums and workshops held in parallel with the 10th International Work-Conference on Artificial Neural Networks (IWANN 2009), covering a wide spectrum of technological areas such as distributed computing, artificial intelligence, bioinformatics, soft computing and ambient-assisted living:

- DCAI 2009 (International Symposium on Distributed Computing and Artificial Intelligence), covering artificial intelligence and its applications in distributed environments, such as the Internet, electronic commerce, mobile communications, wireless devices, distributed computing, and so on. This event accepted a total of 96 submissions selected from a submission pool of 157 papers, from 12 different countries.
- IWAAL 2009 (International Workshop of Ambient-Assisted Living), covering solutions aimed at increasing the quality of life, safety and health problems of elderly and disabled people by means of technology. This event accepted a total of 42 submissions selected from a submission pool of 78 papers, from 9 different countries.
- IWPACBB 2009 (Third International Workshop on Practical Applications of Computational Biology and Bioinformatics), covering computational biology and bioinformatics as a possibility for knowledge discovery, modelling and optimization tasks, aiming at the development of computational models so that the response of biological complex systems to any perturbation can be predicted. This event accepted a total of 39 submissions selected from a submission pool of 75 papers, from 6 different countries.
- SOCO 2009 (4th International Workshop on Soft Computing Models in Industrial Applications), covering the implementation of Soft Computing in industrial applications. This event accepted a total of 11 submissions selected from a submission pool of 19 papers, from 6 different countries.

The registration fee structure strongly encouraged multiple event attendance by providing all authors with free access to all conferences or workshops.

The tenth edition of IWANN was organized by the Universitat Politècnica de Catalunya, the Universidad de Málaga and the Universidad de Granada, together with the Universidad de Salamanca as the local manager. We wish to thank the Spanish Ministerio de Ciencia e Innovación, the Universidad de Salamanca and the Castilla-León Government for their support and grants.

The General Chairs want to express their gratitude to all people directly or indirectly involved in the organization and support of these events, and especially to the members of the Program Committee of each of the events carried out in IWANN. The General Chairs gratefully acknowledge the logistic support and facilities of the

University of Salamanca. Finally, we want to thank Springer, and especially Alfred Hoffman and Anna Kramer for their continuous support and cooperation.

June 2009

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