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Advances in Swarm Intelligence

Second International Conference, ICSI 2011
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Proceedings, Part II

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Preface

This book and its companion volume, LNCS vols. 6728 and 6729, constitute the proceedings of the Second International Conference on Swarm Intelligence (ICSI 2011) held during June 12–15, 2011 in Chongqing, well known as the Mountain City, the southwestern commercial capital of China. ICSI 2011 was the second gathering in the world for researchers working on all aspects of swarm intelligence, following the successful and fruitful Beijing ICSI event in 2010, which provided a high-level international academic forum for the participants to disseminate their new research findings and discuss emerging areas of research. It also created a stimulating environment for the participants to interact and exchange information on future challenges and opportunities in the field of swarm intelligence research.

ICSI 2011 received 298 submissions from about 602 authors in 38 countries and regions (Algeria, American Samoa, Argentina, Australia, Austria, Belize, Bhutan, Brazil, Canada, Chile, China, Germany, Hong Kong, Hungary, India, Islamic Republic of Iran, Japan, Republic of Korea, Kuwait, Macau, Madagascar, Malaysia, Mexico, New Zealand, Pakistan, Romania, Saudi Arabia, Singapore, South Africa, Spain, Sweden, Chinese Taiwan, Thailand, Tunisia, Ukraine, UK, USA, Vietnam) across six continents (Asia, Europe, North America, South America, Africa, and Oceania). Each submission was reviewed by at least 2 reviewers, and on average 2.8 reviewers. Based on rigorous reviews by the Program Committee members and reviewers, 143 high-quality papers were selected for publication in the proceedings with an acceptance rate of 47.9%. The papers are organized in 23 cohesive sections covering all major topics of swarm intelligence research and development.

In addition to the contributed papers, the ICSI 2011 technical program included four plenary speeches by Russell C. Eberhart (Indiana University Purdue University Indianapolis (IUPUI), USA), K. C. Tan (National University of Singapore, Singapore, the Editor-in-Chief of IEEE Computational Intelligence Magazine (CIM)), Juan Luis Fernandez Martinez (University of Oviedo, Spain), Fernando Buarque (University of Pernambuco, Brazil). Besides the regular oral sessions, ICSI 2011 had two special sessions on ‘Data Fusion and Swarm Intelligence’ and ‘Fish School Search Foundations and Application’ as well as several poster sessions focusing on wide areas.

As organizers of ICSI 2011, we would like to express sincere thanks to Chongqing University, Peking University, Chongqing University of Posts and Telecommunications, and Xi’an Jiaotong-Liverpool University for their sponsorship, to the IEEE Computational Intelligence Society, World Federation on Soft Computing, International Neural Network Society, and Chinese Association for Artificial Intelligence for their technical co-sponsorship. We appreciate the Natural Science Foundation of China for its financial and logistic supports.

We would also like to thank the members of the Advisory Committee for their guidance, the members of the International Program Committee and additional reviewers for reviewing the papers, and members of the Publications Committee for checking the accepted papers in a short period of time. Particularly, we are grateful to the proceedings publisher Springer for publishing the proceedings in the prestigious series of *Lecture Notes in Computer Science*. Moreover, we wish to express our heartfelt appreciation to the plenary speakers, session chairs, and student helpers. There are still many more colleagues, associates, friends, and supporters who helped us in immeasurable ways; we express our sincere gratitude to them all. Last but not the least, we would like to thank all the speakers and authors and participants for their great contributions that made ICSI 2011 successful and all the hard work worthwhile.

June 2011

Ying Tan
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