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# Advances in Neural Networks – ISNN 2008

5th International Symposium  
on Neural Networks, ISNN 2008  
Beijing, China, September 24-28, 2008  
Proceedings, Part II

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Library of Congress Control Number: 2008934862

CR Subject Classification (1998): F.1.1, I.2.6, I.5.1, H.2.8, G.1.6

LNCS Sublibrary: SL 1 – Theoretical Computer Science and General Issues

ISSN 0302-9743

ISBN-10 3-540-87733-9 Springer Berlin Heidelberg New York

ISBN-13 978-3-540-87733-2 Springer Berlin Heidelberg New York

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© Springer-Verlag Berlin Heidelberg 2008

Printed in Germany

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India

Printed on acid-free paper SPIN: 12529940 06/3180 5 4 3 2 1 0

# Preface

This book and its companion volume, LNCS vols. 5263 and 5264, constitute the proceedings of the 5th International Symposium on Neural Networks (ISNN 2008) held in Beijing, the capital of China, during September 24–28, 2008. ISNN is a prestigious annual symposium on neural networks with past events held in Dalian (2004), Chongqing (2005), Chengdu (2006), and Nanjing (2007). Over the past few years, ISNN has matured into a well-established series of international symposiums on neural networks and related fields. Following the tradition, ISNN 2008 provided an academic forum for the participants to disseminate their new research findings and discuss emerging areas of research. It also created a stimulating environment for participants to interact with each other and exchange information on future challenges and opportunities of neural network research.

ISNN 2008 received 522 submissions from about 1,306 authors in 34 countries and regions (Australia, Bangladesh, Belgium, Brazil, Canada, China, Czech Republic, Egypt, Finland, France, Germany, Hong Kong, India, Iran, Italy, Japan, South Korea, Malaysia, Mexico, The Netherlands, New Zealand, Poland, Qatar, Romania, Russia, Singapore, South Africa, Spain, Switzerland, Taiwan, Turkey, UK, USA, Virgin Islands (UK)) across six continents (Asia, Europe, North America, South America, Africa, and Oceania). Based on rigorous reviews by the Program Committee members and reviewers, 192 high-quality papers were selected for publication in the proceedings with an acceptance rate of 36.7%. These papers were organized in 18 cohesive sections covering all major topics of neural network research and development. In addition to the contributed papers, the ISNN 2008 technical program included four plenary speeches by Dimitri P. Bertsekas (Massachusetts Institute of Technology, USA), Helge Ritter (Bayreuth University, Germany), Jennie Si (Arizona State University, USA), and Hang Li (Microsoft Research Asia, China). Besides the regular sessions and panels, ISNN 2008 also featured four special sessions focusing on some emerging topics.

As organizers of ISNN 2008, we would like to express our sincere thanks to Tsinghua University, Peking University, The Chinese University of Hong Kong, and Institute of Automation at the Chinese Academy of Sciences for their sponsorship, to the IEEE Computational Intelligence Society, International Neural Network Society, European Neural Network Society, Asia Pacific Neural Network Assembly, the China Neural Networks Council, and the National Natural Science Foundation of China for their technical co-sponsorship. We thank the National Natural Science Foundation of China and Microsoft Research Asia for their financial and logistic support.

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. In particular, we would

like to thank Springer for publishing the proceedings in the prestigious series of *Lecture Notes in Computer Science*. Meanwhile, we wish to express our heartfelt appreciation to the plenary and panel speakers, special session organizers, session Chairs, and student helpers. In addition, 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, authors, and participants for their great contributions that made ISSN 2008 successful and all the hard work worthwhile.

September 2008

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