

# Preface

This volume of *Lecture Notes in Computer Science* constitutes the proceedings of the 13th International Symposium on Neural Networks (ISNN 2016) held during July 6–8, 2016, in Saint Petersburg, Russia. Building on the success of the previous events, ISNN has become a well-established series of popular and high-quality conferences on neural networks and their applications. This year the symposium was held for the second time outside China, in Saint Petersburg, a very beautiful city in Russia. As usual, it achieved great success.

ISNN aims at providing a high-level international forum for scientists, engineers, educators, as well as students to gather so as to present and discuss the latest progresses in neural network research and applications in diverse areas. It encouraged open discussion, disagreement, criticism, and debate, and we think this is the right way to push the field forward.

This year, we received 104 submissions from about 291 authors in 40 countries and regions. Based on the rigorous peer-reviews by the Program Committee members and reviewers, 84 high-quality papers were selected for publication in the LNCS proceedings. These papers cover many topics of neural network-related research including intelligent control, neurodynamic analysis, memristive neurodynamics, computer vision, signal processing, machine learning, optimization etc.

Many organizations and volunteers made great contributions toward the success of this symposium. We would like to express our sincere gratitude to the City University of Hong Kong, the St. Petersburg Institute for Informatics and Automation, Russian Academy of Sciences, the IEEE Hong Kong Section (CIS Chapter), the International Neural Network Society, the Asia Pacific Neural Network Society, and the Russian Neural Networks Society for their technical co-sponsorship. We would also like to sincerely thank all the committee members for all their great efforts and time in organizing the symposium. Special thanks go to the Program Committee members and reviewers whose insightful reviews and timely feedback ensured the high quality of the accepted papers and the smooth flow of the symposium. We would also like to thank Springer for their cooperation in publishing the proceedings in the prestigious *Lecture Notes in Computer Science* series. Finally, we would like to thank all the speakers, authors, and participants for their support.

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