

Tom Gedeon
Kok Wai Wong
Minho Lee (Eds.)

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Neural Information Processing

26th International Conference, ICONIP 2019
Sydney, NSW, Australia, December 12–15, 2019
Proceedings, Part III

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Part III

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Preface

Welcome to the proceedings of the 26th International Conference on Neural Information Processing of the Asia-Pacific Neural Network Society (APNNS 2019), held in Sydney during December 12–15, 2019.

The mission of the Asia-Pacific Neural Network Society is to promote active interactions among researchers, scientists, and industry professionals who are working in Neural Networks and related fields in the Asia-Pacific region. APNNS had Governing Board Members from 13 countries/regions – Australia, China, Hong Kong, India, Japan, Malaysia, New Zealand, Singapore, South Korea, Qatar, Taiwan, Thailand, and Turkey. The society’s flagship annual conference is the International Conference of Neural Information Processing (ICONIP).

The three-volume set of LNCS 11953–11955 includes 177 papers from 645 submission, and represents an acceptance rate of 27.4%, reflecting the increasingly high quality of research in Neural Networks and related areas in the Asia-Pacific.

The conference had three main themes, “Theory and Algorithms,” “Computational and Cognitive Neurosciences,” and “Human Centred Computing and Applications.” The three volumes are organized in topical sections which were also the names of the 20-minute presentation sessions at the conference. The topics were Adversarial Networks and Learning; Convolutional Neural Networks; Deep Neural Networks; Feature Learning and Representation; Human Centred Computing; Hybrid Models; Artificial Intelligence and Cybersecurity; Image Processing by Neural Techniques; Learning from Incomplete Data; Model Compression and Optimisation; Neural Learning Models; Neural Network Applications; Social Network Computing; Semantic and Graph Based Approaches; Spiking Neuron and Related Models; Text Computing Using Neural Techniques; Time-Series and Related Models; and Unsupervised Neural Models.

Thanks very much in particular to the reviewers who devoted their time to our rigorous peer-review process. Their insightful reviews and timely feedback ensured the high quality of the papers accepted for publication. Finally, thank you to all the authors of papers, presenters, and participants at the conference. Your support and engagement made it all worthwhile.

October 2019

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