

Communications in Computer and Information Science


1142

Commenced Publication in 2007

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Neural Information Processing

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

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ISSN 1865-0929 ISSN 1865-0937 (electronic)
Communications in Computer and Information Science
ISBN 978-3-030-36807-4 ISBN 978-3-030-36808-1 (eBook)
<https://doi.org/10.1007/978-3-030-36808-1>

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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 2019 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 conference had three main themes: “Theory and Algorithms,” “Computational and Cognitive Neurosciences,” and “Human Centred Computing and Applications.” The two CCIS volumes 1142–1143 are organized in topical sections which were also the names of the 12-minute presentation sessions at the conference. The topics were “Adversarial Networks and Learning,” “Convolutional Neural Networks,” “Deep Neural Networks,” “Embeddings and Feature Fusion,” “Human Centred Computing,” “Human Centred Computing and Medicine,” “Human Centred Computing for Emotion,” “Hybrid Models,” “Artificial Intelligence and Cybersecurity,” “Image Processing by Neural Techniques,” “Learning from Incomplete Data,” “Model Compression and Optimisation,” “Neural Network Applications,” “Neural Network Models,” “Semantic and Graph Based Approaches,” “Social Network Computing,” “Spiking Neuron and Related Models,” “Text Computing using Neural Techniques,” “Time-series and Related Models,” and “Unsupervised Neural Models.”

A Special thanks 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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