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# Neural Information Processing

Models and Applications

17th International Conference, ICONIP 2010  
Sydney, Australia, November 22-25, 2010  
Proceedings, Part II

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# Preface

Welcome to the 17<sup>th</sup> International Conference on Neural Information Processing (ICONIP 2010) held in Sydney, 22–25 November 2010. In this volume you will find papers presented at this conference. ICONIP is the annual conference of the Asia Pacific Neural Network Assembly (APNNA, <http://www.apnna.net>). The aim of the Asia Pacific Neural Network Assembly is to promote the interaction of researchers, scientists, and industry professionals who are working in the neural network and related fields in the Asia Pacific region, primarily via the ICONIP conference. This year's theme was hybrid / human centred neural systems.

ICONIP 2010 received 470 excellent submissions. Of these, 146 regular session and 23 special session papers appear in these proceedings by Springer. Many outstanding papers do not appear here due to space limitations. Each paper was assessed by at least three reviewers. The conference will be followed by two associated workshops, the ICONIP International Workshop on Data Mining for Cybersecurity, held in November at the University of Auckland, New Zealand, and the ICONIP International Workshop on Bio-inspired Computing for Intelligent Environments and Logistic Systems, held in March at the Australian National University in Canberra, Australia.

I am very pleased to acknowledge the support of the conference Advisory Board, the APNNA Governing Board and Past Presidents, who gave their advice, assistance and promotion of ICONIP 2010. I gratefully acknowledge the technical sponsorship of the International Neural Network Society (INNS), the Japanese Neural Network Society (JNNS), the European Neural Network Society (ENNS), and the Australian Research Council Network in Human Communication Science (HCSNet).

A special thanks to Kevin Wong, Sumudu Mendis and Sukanya Manna without whom the conference organisation would have been much less smooth.

For the many reviewers who worked hard on giving thorough, tough but fair referee reports, thank you! Finally I would like to thank all the authors of papers, the speakers and panelists, volunteers and audience. With your support ICONIP 2010 will continue the tradition of being an uplifting, educational and enjoyable conference.

October 2010

Tom Gedeon

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