

Concluding Report on ISSNIP – '04
International Conference on Intelligent Sensors, Sensor Networks and
Information Processing – 2004
Melbourne, Australia

The first International conference on Intelligent Sensors, Sensor Networks and Information processing was held successfully in Melbourne, Australia. Melbourne is rated as one of the best cities in the world jointly with Vancouver and Vienna.

The conference was held in The Grand Hyatt, leading deluxe Hotel of Melbourne. The hotel provided a fabulous environment to conduct an international conference. The conference was organised by the Australian Research Council's Research Network - ISSNIP. It was sponsored by IEEE Victoria Section, CSSIP, CENDS, DSTO and Raytheon. The conference was technically co-sponsored by IEEE EMBS and ran in-cooperation with IEEE Computational Intelligence Society and IEEE Sensor Council. The conference was attended by over 200 delegates from different parts of the world.

The objective of the conference was to provide an opportunity for both engineers and scientists working in various fields like intelligent sensors, sensor networks and information processing to meet and to present new ideas, achievements and experiences. It was an ideal platform to establish closer links among researchers and practitioners of the ARC research network on Sensor Networks.

The participants had an opportunity to listen to world class tutorials by eminent faculties of renowned institutions like University of Twente, Oregon Univesity, The University of Melbourne, DSTO, Australia and Universtiy of Technology, Sydney. Challenging topics like Real time sensor network, MRI, Speech Processing, sensor scheduling, opportunistic sensor fusion and optimization in sensor network were selected for tutorials. On an average about 15 people were present for each tutorial.

The conference was inaugurated by Marsha Thomson, Victorian ICT Minister and opening address was given by Dr. Nanda Gopal, Director, SSL Labs, DSTO, Australia. The conference had 16 top plenary and key note talks by eminent professors including Graeme Clark, Bionic Ear, Srikanth Kumar, DARPA, Feng Zhao, Microsoft Research, M Srinivasan, ANU, Rob Evans and Iven Mareels, University of Melbourne, Hugh Durrant Whyte, University of Sydney, Vittal Rao, NSF, Belur Dasarathy, USA, David Fogel, Natural Selection, Doug Cochran, DARPA, Ulrich Ramacher, Infineon, Terry Caelli, NICTA, Hynek Hermansky, Oregon University and Mel Seigel, CMU. There were four other invited talks by Prof. Yos Morsi, Dr. Keith Hill, Dr. Javaan Chall and Prof. David O'Carroll.

Four workshops ran in parallel on the last day and were well attended by delegates. This included DEST funded workshop on sensor networks, Machine Learning for Signal Processing, Bio-inspired Models and Unmanned Vehicle Systems. DEST funded workshop on Sensor Networks included eight fully funded participants from Europe.

The conference technical committee received about 185 papers for the conference. The committee selected top 105 papers (*87 papers for oral presentation and 18 papers for poster presentation*) which were published in the IEEE Proceedings.