CALL FOR PAPERS
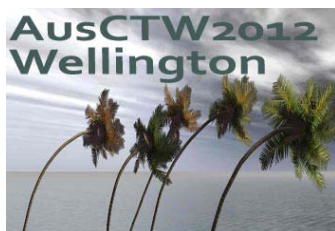
2012 Australian Communications Theory Workshop

Wellington, New Zealand
30 January - 2 February 2012

Workshop Organisers

Workshop Chair

Pawel Dmochowski
Victoria University of Wellington

Local Chair

Alan Coulson
Industrial Research Limited

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Wireless Research Centre, University of Canterbury

Publications

Aaron Reid
Industrial Research Limited

Workshop Announcement

AusCTW 2012 will bring together researchers in physical layer communications and related areas. For the second time since its inception the workshop travels across the Tasman. The 13th Australian Communications Theory Workshop will be held at Victoria University of Wellington, New Zealand, from Monday January 30th through Wednesday, February 1st, 2012. The two and a half day workshop provides an opportunity for researchers and post-graduate students to gather in a largely informal environment to share ideas, make contacts and foster collaborative research links. Previous workshops have been very successful in building links and networks between researchers. In addition to the conference there will be a tutorial day on Thursday, February 2nd, 2012.

Programme Information

Invited Talks

There will be several invited overview presentations and 12 invited technical presentations.

Contributed Papers

Papers presenting previously unpublished results on theoretical aspects of communication systems in the following and related areas are solicited (maximum paper length is 6 pages):

- coded modulation
- coding theory and practice
- communication systems
- channel characteristics and modeling
- detection and estimation
- ultra-wide band communications
- OFDM and DMT processing techniques
- DSP for communications
- information theory and statistics
- iterative decoding algorithms
- multiuser detection
- cross-layer PHY-MAC-NET arrangements
- fourth generation cellular systems
- blind signal separation techniques

All contributed papers will be subject to peer review. Accepted papers will appear in full in the published proceedings and will therefore be fully DEST-compliant. Similar to previous years, arrangements are being made so that the papers appear in IEEEXplore. We are pleased to announce technical sponsorship by the IEEE New Zealand Central Section COM/SP/IT Joint Chapter. Accepted papers will be assigned a slot for presentation in the poster sessions. The standard of accepted submissions will be equivalent to that of Globecom or ICC. Full papers are to be submitted electronically in portable document format (pdf) or PostScript (ps) via the EDAS paper submission system http://www.edas.info. More detailed author/submission instructions can be found at the AusCTW 2012 website listed below.

Proposals for Tutorial

Proposals for running half-day or full-day tutorials on timely topics of interest to AusCTW attendees are being sought. Proposals will be considered by the workshop organizers and decisions will be made by December 20th, 2011. Proposals should be submitted to paul.teal@ecs.vuw.ac.nz.

Poster sessions

It is not necessary to submit a full paper in order to present at the Workshop. To facilitate maximum participation, poster slots will be allocated to anyone who submits a title and brief abstract by Friday, December 20th, 2011. [Abstracts are to be submitted to paul.teal@ecs.vuw.ac.nz, NOT via the EDAS site. See the workshop web page for guidelines on abstract format.] All 300-word abstracts received by this date will be printed and distributed to Workshop attendees, but are not subject to review. After this date, poster slots will be allocated on a first-come, first-served basis, subject to limitations on available space. Prizes will be awarded for the best student paper and the best student poster-presentation.

Key Dates

Paper submission deadline:	**Fri, 4 Nov 2011**
Tutorial proposals:	**Fri, 18 Nov 2011**
Notification of decisions:	**Fri, 9 Dec 2011**
Camera-ready papers due:	**Tue, 20 Dec 2011**
Title and abstracts for posters due:	**Tue, 20 Dec 2011**
Last day for early registration:	**Tue, 10 Jan 2012**

Conference Website: www.ausctw.org.nz