Call for Papers
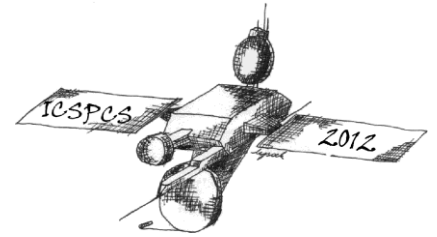
6th International Conference on Signal Processing and Communication Systems, ICSPCS'2012

Gold Coast, Australia 12-14 December 2012
http://www.dspcs-witsp.com/icspcs_2012/index.html

Communication Systems worldwide have provided a rapidly growing and useful range of services and are continuing to evolve using a multitude of Signal Processing techniques. The 6th International Conference on Signal Processing and Communication Systems, ICSPCS'2012, follows the very successful ICSPCS'2010 and ICSPCS'2011. A major objective of the Conference will be to pursue the progression from communication and information theory through to the implementation, evaluation and performance improvement of practical communication systems using Signal Processing technology. The Conference is also planned to be a forum for presenting research into topics ranging from those of the physical layer to the application layer. All aspects of the protocols and processes required for the future networks to operate better and the applications to utilize the full potential offered by the current and the emerging networking infrastructure are also encompassed. In addition, we expect that, as during the previous events, there will be several papers dealing with image, video and audio processing for multimedia, medical and forensic applications, as well as with the security of private and corporate data.

The Conference is technically co-sponsored by IEEE Communications Society. All <u>presented</u> papers will be published in the IEEE Xplore.

Previously unpublished contributions to the following technical areas, but not limited to, are solicited:

Networking
- Traffic modelling
- Protocols
- Embedded Internet devices
- New and enhanced services
- Resource and information management
- Adaptive QoS provisioning
- End-to-end QoS
- Emerging technologies

Wireless Networks
- Mobile ad hoc networking
- Personal area networking
- Cognitive radio and spectrum sensing
- Broadband Wireless Access
- Cross Layer Design
- Mesh Networks
- Cooperative and Intermittent Networks
- Sensor Networks
- Nano-networks
- Military Communications
- Test-beds and new applications

Information Security
- Security primitives and algorithms
- Security of wireless and distribution networks
- Security of sensor networks
- Authentication and authorization
- Encryption
- Data integrity
- Information assurance

Unconventional applications of Signal Processing
- Medical applications
- Financial modelling
- Data mining
- Forensic applications
- Traffic modelling
- Bio-signalling
- Molecular communications
- Inter and intra-cellular communications

Fixed networks
- Optical networks and switching
- Network architectures and equipment
- Programmable networks
- Pear-to-pear networking
- Test-beds and trials
- Network gaming
- New and enhanced services

Communication theory and techniques
- Channel measurements and modelling
- Coding and modulation techniques
- MIMO - theory and trials
- Spread Spectrum and CDMA systems
- OFDM technology
- Space-time coding
- Diversity techniques
- Ultra Wide-Band Communications
- Antennas and propagation

Multimedia signal processing
- Streamed multimedia applications
- Algorithms and implementations
- Image audio and video processing
- Error concealment techniques
- Management of multimedia services
- Test-beds and trials
- Multimedia games

DSP algorithms and hardware implementations
- DSP implementation in hardware
- DSP algorithms
- Smart antennas and tracking
- Signal separation

Ranging and Localization
- Indoor Positioning Technologies and Techniques
- Radio-based Positioning Systems
- Ranging and Localization Algorithms
- Vehicle/Robot Navigation
- Hybrid Positioning and Communication
- RFID Localization/Communication
- UWB Ranging and Localization

Important Dates:
- **Full Paper Submission Deadline: 30 June 2012**
- **Notification of acceptance: 15 September 2012**
- **Camera-Ready Copy: 15 October 2012**
- **Registration: 15 October 2012**

International Advisory Committee
- Nallanathan Arumugam, United Kingdom
- Davide Dardari, Italy
- Tarek El-Bawab, USA
- Lisandro Zambenedetti Granville, Brazil
- Robert Heath, USA
- Bahram Honary, United Kingdom
- Abbas Jamalipour, Australia
- Latif Ladid, Luxembourg
- Jaime Lloret Mauri, Spain
- Angel Lozano, Spain
- Peter Mueller, Switzerland
- Martin Reisslein, USA
- Joel Rodrigues, Portugal
- Hamid Sharif, USA
- Ravi Subrahmanyan, India
- Beata J Wysocki, USA
- Tadeusz A Wysocki, USA

For further information please contact:
   Prof. Tad Wysocki
   E-mail: twysocki2@unl.edu

To submit your manuscript, please go to http://edas.info/N12305