ISSSTA 2004 SYDNEY

Wideband Signal Processing -
Taking Spectrum into the Future

ISSSTA 2004 Sydney, Australia

Eighth IEEE International Symposium on Spread Spectrum Techniques and Applications

Sydney, Australia, 30 August - 2 September, 2004

Call for Participation

ISSSTA 2004 will highlight theoretical performance of existing and future systems, as well as novel applications and implementations of spread spectrum technology. MIMO systems and Ultra wideband will join the list of topics which will include:

Theory

- → Information theory of SS, MIMO channels
- → Performance bounds, capacity limits
- → SS signal processing including Ultra wideband
- → Sequence and waveform design
- → Signal acquisition and tracking
- → Coding and modulation for SS and multi-user systems
- → Information security LPI, LPD
- → Receivers and diversity techniques
- → Space-Time coding for SS systems
- → Adaptive equalization, channel estimation and SS signal detection
- → Interference suppression and cancellation
- → Multiple access techniques and capacity analysis
- → Antenna arrays, multi-sensor channels
- → Remote sensing, radar, sonar and positioning system performance
- → Multicarrier CDMA

Applications

- → Performance of SS/CDMA MIMO and multi-sensor systems
- → Ultra wideband (UWB) systems
- → Resource allocation, power control
- → Ad-hoc SS/CDMA networks
- → Performance of SS/CDMA satellite systems
- → 4G System concepts
- → Quantum applications
- → Tools for system analysis
- → Integrated circuit design and implementation
- → Communications using chaos

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