



## CALL FOR PAPERS

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The 10<sup>th</sup> *International Symposium on Spread Spectrum Techniques and Applications* will be held in Bologna (Italy) on August 25-28, 2008. ISSSTA 2008 will focus on the latest advances in wideband wireless communications, spread spectrum (SS) techniques, OFDM, MIMO, and Ultra Wideband (UWB), for both communication and navigation. Topics of interest include, but are not limited to:

### Theory

- Information theoretic aspects of wideband communications
- Network information theory
- Advances in coding techniques
- Joint source and channel coding
- Secure communications and encryption
- Sequence design and optimization
- DS, TH, FH and hybrid concepts
- Chaotic sequences and communications
- UWB communications
- Multidimensional modulation
- Multicarrier CDMA and OFDM
- Pre-coding and beam forming
- MIMO & diversity techniques
- Wideband channel modeling
- Signal processing for wideband receivers
- Code acquisition and tracking
- Synchronization and channel estimation
- Adaptive equalization and combining
- Iterative receivers
- Multi-user detection
- Interference cancellation and mitigation
- Resource management, power control
- Cross-layer techniques
- Cognitive, flexible, and software radio
- Dynamic spectrum use
- Cooperative techniques and networks
- Opportunism in wireless networks

### Applications

- Beyond 3G, LTE and 4G networks
- Wireless networks (BAN, PAN, WLAN, MAN, WiMAX)
- OFDM, CDMA, UWB system concepts
- Multimedia broadcasting
- Ad-hoc networks
- Wireless sensor networks
- Optical SS
- Satellite and deep space communications
- Navigation (GPS, Galileo, Glonass, terrestrial-based)
- Remote sensing, radar, and sonar

### Important dates

Submission deadline: **1 February 2008**  
Acceptance notice: **1 April 2008**  
Final manuscript due: **1 June 2008**

### Innovative sessions

At ISSSTA 2008 we will experiment with some unconventional forms of session, where open problems will be discussed in an explorative fashion adopting parallel thinking tools. Every attendee will have a chance to express and generate ideas

### Special sessions

Submission of proposals for special/panel sessions on hot topics should be submitted to [isssta08\\_organization@arces.unibo.it](mailto:isssta08_organization@arces.unibo.it) by **December 31, 2008**

### Tutorials

Submission of proposals for Tutorials on fundamental topics should be submitted to [isssta08\\_tutorials@arces.unibo.it](mailto:isssta08_tutorials@arces.unibo.it) by **February 1, 2008**

### Exhibitions

Exhibits are welcome for demonstrators, products, and books in the conference technical areas. Proposals should be submitted to [isssta08\\_organization@arces.unibo.it](mailto:isssta08_organization@arces.unibo.it) by **March 1, 2008**

### Conference Venue

The conference will be held at the Hotel Savoia Regency in Bologna, Italy. Bologna, the hometown of Guglielmo Marconi, is the regional capital of Emilia Romagna, lying midway between Venice and Florence and at a close distance to Ferrari's headquarters in Maranello. Bologna preserves traces of its past culture and the imprinting of Italian medieval magnificence. World famous for its cuisine and its two towers Asinelli and Garisenda, Bologna is animated by a cosmopolitan culture nurtured by its University, founded in 1088 and oldest in the Western World, which gained the city its name of "Bologna la Dotta" (the learned town)

### More at the ISSSTA2008 Web Site:

[www.isssta2008.org](http://www.isssta2008.org)