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# Call for Papers

## *Fifth International Workshop on* **Multi-Carrier Spread Spectrum (MC-SS 2005)**

September 14-16, 2005  
Oberpfaffenhofen, Germany  
[www.mcss2005.org](http://www.mcss2005.org)

The success of next generation (beyond 3G) wireless systems will depend on the concepts and technology innovations in architecture and in efficient utilization of the allocated spectrum. Developments of digital communication systems in the past decades have enabled the introduction of efficient modulation and coding techniques for robust and spectrally efficient data, speech, audio and video transmission. Among these are multi-carrier modulation (e.g., OFDM), spread spectrum signaling (e.g., DS-CDMA), and their combination, called Multi-Carrier Spread Spectrum (MC-SS), which are considered as potential candidates for the beyond 3G technology. Therefore, this fifth international workshop on Multi-Carrier Spread-Spectrum will be focused on (but not limited to) the following topics:

- Broadband beyond 3G cellular systems based on multi-carrier modulation (OFDM), spread spectrum techniques (DS-CDMA) and combinations of both (MC-SS, MC-CDMA, MC-DS-CDMA), covering access/distribution, mobile/fixed, and outdoor/indoor applications;
- Multi-carrier systems based on new standards like IEEE 802.11, IEEE 802.16, ETSI-BRAN HiperMAN, and WiMAX;
- Efficient coding, modulation, multiplexing, and detection strategies;
- Low-complexity joint detection and interference cancellation techniques;
- Space-time coding/MIMO/smart antennas in conjunction with multi-carrier systems;
- Robust synchronization and channel estimation;
- Cell- and frequency planning aspects;
- Realization and implementation issues.

**Submission:**

Authors are invited to send an extended abstract of the paper in English, not exceeding 1000 words, electronically as described on the web page: [www.mcss2005.org](http://www.mcss2005.org)

**Deadlines:**

- Submission of extended abstracts **April 15, 2005**
- Notification of acceptance **July 15, 2005**
- Final manuscript **September 14, 2005** (at the workshop)

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