

# Call for Participation

6<sup>th</sup> International Workshop on

## Multi-Carrier Spread Spectrum

MC-SS, MC-CDMA, OFDM, and related topics

### MC-SS 2007

May 07-09, 2007  
Herrsching, Germany  
[www.mc2007.org](http://www.mc2007.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 signalling (e.g., DS-SS, DS-SS-SS), and their combination, called multi-carrier spread spectrum (MC-SS), which are considered as potential candidates for the beyond 3G technology. Therefore, the 6<sup>th</sup> 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-SS, DS-SS-SS) and combinations of both (MC-SS, MC-CDMA, MC-DS-SS);
- 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;
- Synchronization and channel estimation;
- Cell- and frequency planning aspects;
- Realization and implementation issues.

#### Keynote speakers:

Fumiyuki Adachi (Japan)  
Ralf Koetter (Germany)  
Li Ping (Hong Kong)  
Hikmet Sari (France)

Joachim Hagenauer (Germany)  
Marc Moeneclaey (Belgium)  
Ramjee Prasad (Denmark)

**Tutorial:** on MC-CDMA on May 07 in the morning

**Regular sessions:** on May 07-09

**Research and Industry Exhibitions:** on May 07-09

Herrsching is located nearby Munich directly at Lake Ammer (Ammersee).

**Early registration fees available until March 01, 2007: [www.mc2007.org](http://www.mc2007.org)**

#### General Co-chairs:

Armin Dammann, German Aerospace Center (Germany)  
Stefan Kaiser, DoCoMo Euro-Labs (Germany)  
Khaled Fazel, Ericsson (Germany)

#### Technical Program Committee:

Y. Bar-Ness (USA)	M. Moeneclaey (Belgium)
G. P. Fettweis (Germany)	W. Mohr (Germany)
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J. Lindner (Germany)	M. Sawahashi (Japan)
U. Mengali (Italy)	M. Sternad (Sweden)
L. B. Milstein (USA)	R. E. Ziemer (USA)

