



# CALL FOR PAPERS

## 44<sup>th</sup> Annual Asilomar Conference on Signals, Systems, and Computers



**Asilomar Hotel and Conference Grounds**  
**Pacific Grove, California**  
**November 7-10, 2010**  
[www.asilomarssc.org](http://www.asilomarssc.org)

Authors are invited to submit papers before June 1<sup>st</sup>, 2010, in the following areas:

**A. Communications Systems:** 1. Error Control Coding, 2. CDMA, 3. Modulation and Detection, 4. Performance Bounds, 5. Synchronization, 6. Ultra Wideband, 7. OFDM / Multicarrier, 8. Wireless Communications, 9. Optical Communications, 10. Cognitive SDR, 11. Adaptive Waveform Design

**B. MIMO Communications and Signal Processing:** 1. Space-Time Coding and Decoding, 2. Channel Estimation and Equalization, 3. Multi-User and Multi-Access Methods, 4. Cooperative Diversity.

**C. Networks:** 1. Transmission Techniques for Ad Hoc Networks, 2. Wireless Sensor Networks, 3. Network Information Theory, 4. Optical Networks

**D. Adaptive Systems and Processing:** 1. Adaptive Filtering, 2. Fast Algorithms for Adaptive Filtering, 3. Frequency-Domain and Subband Adaptive Filtering, 4. Adaptive Blind Processing

**E. Array Processing and Statistical Signal Processing:** 1. Array Processing and Beamforming, 2. Sonar and Acoustical Array Processing, 3. Radar Array Processing, 4. Remote Sensing, 5. Signal Separation, 6. Estimation and Detection, 7. Non-Gaussian and Nonlinear Methods, 8. Identification,

9. Compressive Sensing, 10. Information Theoretic Signal Processing, 11. Spectral Analysis

**F. Biomedical Signal and Image Processing:** 1. Medical Image Analysis, 2. Imaging Modalities, 3. Advances in Medical Imaging, 4. Biomedical Signal Processing, 5. Biomedical Applications, 6. Bioinformatics, 7. Image Registration and Multi-modal Imaging, 8. Image Reconstruction, 9. Computer Aided Diagnosis, 10. Functional Imaging, 11. Visualization

**G. Architecture and Implementation:** 1. Programmable and Reconfigurable Architectures, 2. SOC Architectures, 3. Low-power Methods, 4. Compilers and Tools, 5. Integrated Algorithm and Architecture Implementation, 6. Computer Arithmetic, 7. Numerical Processing

**H. Speech, Image and Video Processing:** 1. Speech Processing, 2. Speech Coding, 3. Speech Recognition, 4. Narrowband / Wideband Speech and Audio Coding, 5. Document Processing, 6. Models for Signal and Image Processing, 7. Image and Video Coding, 8. Image and Video Segmentation, 9. Image and Video Analysis, 10. Image / Video Security, Retrieval and Watermarking, 11. Image and Video Enhancement / Filtering, 12. Biometrics and Security, 13. Wavelets

Submissions should include a 50 to 100 word abstract and an extended summary (500 to 1000 words, plus figures). Submissions must include the title of the paper, each author's name and affiliation, and the technical area(s) in which the paper falls with number(s) from the above list. Check the conference website ([www.asilomarssc.org](http://www.asilomarssc.org)) for specific information on the electronic submission process. Submissions will be accepted starting February 1, 2010. **No more than FOUR submissions are allowed** per contributor, as author or co-author. **All submissions must be received by June 1<sup>st</sup>, 2010.** Notifications of acceptance will be mailed by mid August 2010, and author information will be available on the conference website by late August 2010. Full papers will be due shortly after the conference and published in early 2011. All technical questions should be directed to the Technical Program Chair, **Dr. Miloš Doroslovački**, e-mail [doroslov@gwu.edu](mailto:doroslov@gwu.edu), or the General Chair, **Dr. Linda DeBrunner**, e-mail [linda.debrunner@fsu.edu](mailto:linda.debrunner@fsu.edu). Prospective organizers are invited to submit proposals for **special sessions** to [doroslov@gwu.edu](mailto:doroslov@gwu.edu) or [linda.debrunner@fsu.edu](mailto:linda.debrunner@fsu.edu) by January 15, 2010. Proposals must include a topical title, rationale, session outline, contact information, and a description of how the session will be organized.

### CONFERENCE COMMITTEE

General Chair:	Linda DeBrunner, <i>Florida State University</i>
Technical Program Chair:	Miloš Doroslovački, <i>The George Washington University</i>
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The site for the 2010 Conference is at the Asilomar Conference Grounds, in Pacific Grove, CA. The grounds border the Pacific Ocean and are close to Monterey, Carmel, and the scenic Seventeen Mile Drive in Pebble Beach.

The Conference is organized in cooperation with the Naval Postgraduate School, Monterey, CA, and ATK Mission Research, Monterey, CA. The IEEE Signal Processing Society is a technical co-sponsor of the conference.