



CALL FOR PAPERS

41st Annual Asilomar Conference on Signals, Systems, and Computers



Asilomar Hotel and Conference Grounds
Pacific Grove, California
November 4 - 7, 2007
www.asilomarssc.org

Authors are invited to submit papers before June 1st, 2007, 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

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

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

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. Multi-rate and Digital Signal Processing: 1. Filter Design, Theory, and Implementation, 2. Wavelets, 3. Quantization, 4. Sampling, 5. Signal Representations and Spectral Analysis

H. 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

I. 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

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) for specific information on the electronic submission process. Submissions will be accepted starting February 1, 2007. **No more than FOUR submissions are allowed** per contributor, as author or co-author. **All submissions must be received by June 1, 2007.** Notifications of acceptance will be mailed by late August 2007, and author information will be available on the conference website by mid September 2007. Full papers will be due at the conference and published in the spring of 2007. All technical questions should be directed to the Technical Program Chair, **Dr. Maité Brandt-Pearce**, e-mail: mb-p@virginia.edu, or the General Chair, **Dr. Victor DeBrunner**, e-mail: victor.debrunner@fsu.edu. Prospective organizers are invited to submit proposals for **special sessions** to mb-p@virginia.edu or victor.debrunner@fsu.edu by January 15, 2007. 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:	Victor DeBrunner, <i>Florida State University</i>
Technical Program Chair:	Maité Brandt-Pearce, <i>University of Virginia</i>
Conference Coordinator:	Monique P. Fargues, <i>Naval Postgraduate School</i>
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Finance Chair:	Frank Kragh, <i>Naval Postgraduate School</i>

The site for the 2007 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.