CALL FOR PAPERS
Thirty-Eighth Annual Asilomar Conference on
Signals, Systems, and Computers

Asilomar Hotel and Conference Grounds, Pacific Grove, California
November 7-10, 2004

URLs: web.nps.navy.mil/~asilomar & www.nps.navy.mil/asilomar
Authors are invited to submit papers before June 1st, 2004, in the following areas:

A. Communications Systems and Networking:
1. Error Detection and Correction, 2. Signal Representation and Spectral analysis, 3. CDMA, 4. Modulation and Detection, 5. Performance Bounds, 6. Synchronization, 7. Ultra Wideband, 8. OFDM / Multicarrier, 9. Networks, 10. Wireless Communications, 11. Optical Communications

B. Adaptive Systems and Processing: 1. Adaptive Filtering, 2. Adaptive Signal Processing, 3. Adaptive Beamforming, Adaptive Technologies for Communication, 4. Intelligent Hearing Aids

C. Array Processing and MIMO: 1. Array Processing 2. Array Processing for Wireless Communications, 3. Sonar and Acoustical Array Processing, 4. Radar Array Processing, 5. MIMO / Space-time Coding

D. 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

E. Signal Processing Algorithms and Applications: 1. DSP in Wireless Communications, 2. Radar and Sonar Signal Processing, 3. Energy Efficient DSP, 4. Low Rank Signal Processing, 5. Cooperative Analog / Digital Signal Processing, 6. Multimedia Signal Processing, 7. Multisensor / Multirate Signal Processing

F. Architecture and Implementation: 1. FPGA Implementation, 2. ASIC Implementation, 3. VLSI Implementation, 4. Computer Arithmetic, 5. Numerical Processing, 6. Architectures for Multimedia, 7. Security

G. 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. Mathematical 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

H. Tools and Strategies for Education

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 websites (web.nps.navy.mil/~asilomar, www.nps.navy.mil/asilomar) for specific information on the electronic submission process. Submissions will be accepted starting February 1, 2004. **No more than FOUR submissions are allowed** per contributor, as author or co-author. **All submissions must be received by June 1, 2004**. Notifications of acceptance will be mailed by late August 2004, and author information will be available on the conference website by mid September 2004. Full papers will be due at the conference and published in the spring of 2005. All technical questions should be directed to the Technical Program Chair, **Dr. Scott T. Acton**, e-mail: acton@virginia.edu, or the General Chair: **Dr. Keith A. Teague**, e-mail: teague@okstate.edu. Prospective organizers are invited to submit proposals for **special sessions** to acton@virginia.edu or teague@okstate.edu by January 15, 2004. Proposals must include a topical title, rationale, session outline, contact information, and a description of how the session will be organized.

CONFERENCE COMMITTEE

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The site for the 2004 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, Mission Research Corporation, Monterey, CA, and the IEEE Signal Processing Society.