

## 2007 Asilomar Conference Session Schedule

### Sunday Afternoon, November 4

2:00 - 7:00 PM Registration – Main Lodge  
5:00 - 6:30 PM Student Paper Contest – Merrill Hall  
7:00 - 9:00 PM Welcoming Reception – Merrill Hall

### Monday Morning, November 5

7:30 - 9:00 AM Breakfast – Crocker Dining Hall  
8:00 AM - 6:00 PM Registration  
8:15 - 9:45 AM MA 1a – Conference Opening and Plenary Session  
9:45 - 10:15 AM Coffee Social

#### 10:15 - 12:00 PM MORNING SESSIONS

MA1b Signal Separation  
MA2b Genomic Signal Processing  
MA3b Analysis of Large Scale Communications Systems  
MA4b Challenges and Opportunities in MIMO Communications  
MA5b Integrated Algorithm and Architecture Implementation  
MA6b Adhoc Network Capacity  
MA7b Genomic Data Processing

12:00 - 1:00 PM Lunch – Crocker Dining Hall

### Monday Afternoon, November 5

#### 1:30 - 5:10 PM AFTERNOON SESSIONS

MP1 MIMO Radars  
MP2a Registration in Biomedical Imaging  
MP2b Image and Video Coding I  
MP3 Cross-Layer Optimization in Wireless Resource Allocation  
MP4 Multi-User MIMO Communications I  
MP5 Computer Arithmetic  
MP6 System Theory for Sensor Networks  
MP7 Adaptive Signal Processing Using Higher-Order Arrays  
MP8a1 Cooperative Communications (Poster)  
MP8a2 Precoding for MIMO (Poster)  
MP8a3 Image and Video Coding and Processing (Poster)  
MP8a4 Topics in Speech, Image, and Signal Processing and Coding (Poster)  
MP8b1 Statistical Signal Processing (Poster)  
MP8b2 Biomedical and Genomic Signal Processing (Poster)

### Monday Evening, November 5

6:30 - 9:30 PM Conference Cocktail/Social – Merrill Hall  
The Cocktail/Social takes the place of Monday's dinner. No charge for conference attendees or their guest.

## 2007 Asilomar Conference Session Schedule (continued)

### Tuesday Morning, November 6

7:30 - 9:00 AM Breakfast – Crocker Dining Hall  
8:00 AM - 5:00 PM Registration

#### 8:30 AM - 12:10 PM MORNING SESSIONS

TA1 Non-Gaussian and Nonlinear Methods in Statistical Signal Processing  
TA2 Spatio-Temporal Processing in Biomedical Imaging  
TA3 Recent Advances in Cognitive Radio  
TA4 Cooperative Diversity  
TA5 Signal Processing for Structural Health Monitoring  
TA6 Network Information Theory  
TA7 Image and Video Coding II  
TA8a1 Architectures (Poster)  
TA8a2 Modulation, Detection, and Error Control Coding (Poster)  
TA8a3 Interference Handling in Wireless Communications (Poster)  
TA8b1 Multirate and Digital Signal Processing (Poster)  
TA8b2 Performance Bounds (Poster)  
TA8b3 Selected Topics in Wireless Communications (Poster)

12:00 - 1:00 PM Lunch – Crocker Dining Hall

### Tuesday Afternoon, November 6

#### 1:30 - 5:10 PM AFTERNOON SESSIONS

TP1 Underwater Acoustical Array Signal Processing  
TP2 Cellular Image Analysis  
TP3 Ultra Wideband Communications  
TP4a Estimation and Detection  
TP4b Array Signal Processing  
TP5 Low-Power Methods  
TP6a Network Pricing  
TP6b Relay Channels  
TP7a Speech Coding, Processing and Transport  
TP7b Plenoptic Signal Processing  
TP8a1 Advances in MIMO Communications (Poster)  
TP8a2 MIMO Communication over Frequency Selective Channels (Poster)  
TP8a3 Adaptive Systems and Processing (Poster)  
TP8b1 Multi-user MIMO Communications II (Poster)  
TP8b2 OFDM and Multi-Carrier Communications (Poster)  
TP8b3 Estimations, Synchronization, and Equalization (Poster)

### Tuesday Evening, November 6

8:00 - 10:00 PM Bonfire at the fire pit next to Crocker Hall

## 2007 Asilomar Conference Session Schedule

(continued)

### Wednesday Morning, November 7

- 7:30 - 9:00 AM Breakfast – Crocker Dining Hall  
8:00 AM - 12:00 PM Registration – **Copyright Forms** must be turned in before the registration closes at 12:00 noon.
- 8:30 AM - 12:10 PM MORNING SESSIONS
- WA1a Source Localization and Imaging  
WA1b Adaptive Radar Signal Processing  
WA2a New Optical Techniques for Cancer Detection and Therapy  
WA2b Signal Processing Techniques in Advanced MR Imaging  
WA3a Wireless Optical Communications  
WA3b Iterative Receiver Processing on Communication Systems  
WA4 Feedback in MIMO Systems  
WA5a Programmable and Reconfigurable Architectures  
WA5b SOC Architectures  
WA6a Radar Signal Processing  
WA6b Signal Processing in Cognitive Radio Networks  
WA7a Speech and Audio Coding  
WA7b Wavelet and Filter Bank Methods for Image and Video Processing  
WA8a1 Wireless Networks (Poster)  
WA8a2 Sensor Networks (Poster)  
WA8a3 Radar and Array Signal Processing (Poster)
- 12:00 - 1:00 PM Lunch – Meal tickets may be purchased at registration desk. This meal is not included in the registration.

## Student Paper Contest

Merril Hall - Sunday, November 4, 2007

Judging starts at 6:30PM

(Listed in paper number order)

*“Knowledge-Aided Space-Time Adaptive Processing”*

**Xumin Zhu**, Jian Li, Petre Stoica, and Joseph R. Guerci

*“A Deterministic Method for Haplotype Inference”*

**Kuo-ching Liang** and Xiadong Wang, Columbia University

*“Rate Estimation Using Forward Adaptive Quantization: H.264 Fast Intra Mode Selection at High Data Rates”*

**Koohyar Minoo** and Truong Q. Nguyen, University of California, San Diego

*“Matrix Decomposition Architecture for MIMO Systems: Design and Implementation Trade-Offs”*

**Christoph Studer**, Patrick Blösch, Peter Friedli, and Andreas Burg, ETH Zurich

*“Multicarrier Broadcast and Unicast Hybrid Systems”*

**Hongxiang Li**, Bin Liu, and Hui Liu, University of Washington

*“Instruction Set Extensions for AES Processing on a Multithreaded Software Defined Radio Platform”*

**Christipher Jenkins**, Suman Mamidi, Michael Schulte, University of Wisconsin-Madison, and John Glossmer, Sandbridge Technologies

*“Real-Time MIMO Discrete Multitone Transceiver Testbed”*

**Alex Olson**, Aditya Chopra, Yousof Mortazavi, Ian Wong, and Brian Evans, University of Texas at Austin