Call for Paper

The 2001 IEEE International Workshop on Genomic Signal Processing and Statistics (GENSIPS’11) will be held in San Antonio, Texas, from December 4-6, 2011. GENSIPS’11 will provide a forum for researchers in the signal processing community, other related computational experts, and biomedical scientists to exchange ideas and discuss signal processing challenges due to the high modality of disparate high-throughput data, high variability of the data acquisition, high dimensionality of data, and high complexity of genomics and proteomics systems. The theme of GENSIPS’11 is cancer and computational biology and GENSIPS will feature prominent plenary speakers including Dr. John N. Weinstein from UT MD Anderson Cancer Center as well as special sessions in cancer research. GENSIPS’11 will also provide best paper awards to students with outstanding technical contributions. GENSIPS’11 will be in conjunction with the San Antonio Breast Cancer Symposium (SABCS), the world’s most famous and largest breast cancer conference, providing GENSIPS’11 attendee convenience to also attend SABCS.

San Antonio is not only a center for world-recognized biomedical research institutions and industries, but it is also a cultural gateway into the American Southwest. Famous for its River Walk, the Alamo, Tejano culture, and home to the SeaWorld San Antonio and Six Flags Fiesta Texas theme parks, the city is visited by 20 million tourists per year. San Antonio is also home to the first museum of modern art in Texas—the Marion Koogler McNay Art Museum, as well as one of the most successful National Basketball Association teams, the San Antonio Spurs.

Possible topical areas of interest include, but are not limited to the following:

• Cancer biomarker discovery
• System level prognosis and diagnosis
• Data integration and TCGA data processing
• Fault diagnosis of cancer regulatory networks
• Modeling of cancer dynamics
• Cancer drug screening and effectiveness prediction
• High throughput sequencing data analysis
• High throughput data and cloud computing
• Genetic network and pathway modeling and simulation
• Dynamics and control of genetic regulatory networks
• Functions of miRNA and non-coding RNAs
• Data analysis methods for SNP/genotype data
• Proteomics LC/MS data analysis and
• Functional meta-genomics and bimolecular dynamics in microbial communities

Paper Submission: Prospective authors are invited to submit unpublished work to GENSIPS’11. All papers will be included in IEEE Xplore and indexed by EI. The full papers should adhere to the standard 8.5” X 11” IEEE format and must not exceed 4 pages.

Special Issue in BMC Genomics: Authors of paper with exceptional quality will be invited to submit the extended version to a special issue in BMC Genomics (IF 3.76).

Important Deadlines:

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<td>Proposal for special sessions</td>
<td>August 15, 2011</td>
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<tr>
<td>Due date of full paper</td>
<td>August 15, 2011</td>
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<tr>
<td>Notification of Acceptance</td>
<td>Sept 15, 2011</td>
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<td>Registration and final paper deadline</td>
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