

Student Paper Contest

Poster session Sunday evening in Merrill Hall, judging
6:00 - 7:00 pm, papers to remain posted during Welcome
Reception.

Category A – Communications Systems and Networking
"Code Design for the Relay Channel and Factor Graph Coding"
Mohammad Ali Khojastepour, Nasir Ahmed, and Behnaam Aazhang,
Rice University

Category C – Array Processing and MIMO
"Uniform Channel Decomposition for MIMO Communications"
Yi Jiang and Jian Li, University of Florida
"On the Capacity of the Broadband Relay Networks"
Guoqing Li and Hui Liu, University of Washington

Category D - Biomedical Signal and Image Processing
*"Automated Detection and Classification of Vascular Abnormalities
in Diabetic Retinopathy"*
Deepika Vallabha, Kamesh Namuduri, Ramprasath Dorairaj, Wichita
State University and Hilary Thompson, Louisiana State University

Category E – Signal Processing Algorithms and Applications
*"Maximum Likelihood Diffusive Source Localization Based on
Binary Observations"*
Yoav Levinbook and Tan Wong, University of Florida
*"Detection Performance Limits of Channel Impaired Distributed
Sensor Networks"*
Qi Cheng, Biao Chen, Pramod Varshney, Syracuse University

Category F – Architecture and Implementation
"Optimal Tower Fields for Hyperelliptic Curve Cryptosystems"
Selcuk Baktir and Berk Sunar, Worcester Polytechnic Institute;
Jan Pelzl, Thomas Wollinger, and Christof Paar, Ruhr University
Bochum
"An Efficient 21.56Gbps AES Implementation on FPGA"
Xinmiao Zhang and Keshab Parhi, University of Minnesota

Category G – Speech, Image, and Video Processing
*"A Generalisation of the Delogne-Kasa Method for Fitting
Hyperspheres"*
Emanuel Zelniker and Vaughan Clarkson, The University of
Queensland
*"Blind Image Deconvolution using Constrained Variance
Maximization"*
Dalong Li and Russell Mersereau, Georgia Institute of Technology;
Steven Simske, Hewlett Packard