August 9-12, 2015 - Signal Processing Workshop/Signal Processing Education Workshop - Snowbird Resort, Salt Lake City, Utah

		Monday = 10th				
		Neural Networks, Machine Learning				
		Meta learning of bounds on the Bayes classifier error	Kevin Moon: Véronique Delouille: Alfred Hero III			
	М1	The Performance Limit for Distributed Bayesian Estimation with Identical One-Bit Quantizers	Xia Li; Jun Guo; Uri Rogers; Hao Chen			
		Randomized Robust PCA for High Dimensional Data Matrices	Mostafa Rahmani			
		Highly Accurate Palmprint Recognition Using Statistical and Wavelet Features	Shervin Minaee; AmirAli Abdolrashidi			
		Iris Recognition Using Scattering Transform and Textural Features	Shervin Minaee; AmirAli Abdolrashidi			
		Reduced Dimensionality, Information Rich Visual Representations for Scene Classification	Kaveri Thakoor			
		Studying the relationship between physical and language environments of children: Who's speaking to whom and where?	Abhijeet Sangwan; John Hansen; Dwight Irvin; Stephen Crutchfield; Charles Greenwood			
		SP Educ	cation			
		Introductory Signal Processing Course Offered Across the Curriculum	Andreas Spanias			
		Real-Time DSP Basics Using Arduino and the Analog Shield SAR Codec Board	Mark Wickert			
		Hands-on Software Defined Radio Experiments with the Low- cost RTL-SDR Dongle	Mark Wickert; McKenna Lovejoy			
	M1	An Inquiry-based Acoustic Signal Processing Lab Module for Introducing Digital Communications	Andrew G. Klein			
		Question Review Model For Q&A Systems	Greg Krudysz; James H McClellan			
		Developing an Educational Electro-Mechanical Model of the Middle Ear and Impulse Noise Reduction Algorithm for Cochlear Implant Users	John Hansen			
		Nine C Programming Labs to Turn Students into Filtering and Signal Analysis Experts	Jake Gunther; Todd Moon			
	Digital Signal Processing					
	M1	A Comparative Study Of Commuting Matrix Approaches For The	Ishwor Bhatta; Balu Santhanam			
Monday		Discrete Fractional Fourier mansionin Wideband EW Demokulation for Large Wideband to Nargewhand Wening Live Balu Santhanam				
		conversion factors Via Multirate Frequency Transformations				
	SP for Communications					
		Relay misbehavior detection for robust diversity combining in	Tsang-Yi Wang; Po-Heng Chou; Wan-Jen Huang			
		Cooperative communications Doubly Weighted DFT-Based Feedback Codebook Design For	Juinn-Horng Deng; Sheng-Yang Huang; Jeng-Kuang Hwang			
		Orthogonal Space-Time Block Codes	Coaro Dozonomi Fombiroj Takoviro			
		Past Detection of OFDM systems using Graphical Models	Sam Schmidt: Willie K Harrison			
	M2	Tail Shortening by Virtual Symbols in FBMC-00AM Signals	Fang Wang: Daiming Ou: Tao Jiang: Bebrouz Farbang.			
			Boroujeny			
		An Autoregressive model for a single-nop Relay channel	Tadesse Ghirmai			
		An Autoregressive Model for a single-nop Relay channel Applying Metropolis-Hastings-Within-Gibbs algorithm for data detection in relay-based communication system	Tadesse Ghirmai Tadesse Ghirmai			
		An Autoregressive Model for a single-nop ketay channel Applying Metropolis-Hastings-Within-Gibbs algorithm for data detection in relay-based communication system Optimal Non-coherent Data Detection for Massive SIMO Wireless Systems: A Polynomial Complexity Solution	Tadesse Ghirmai Tadesse Ghirmai Haider Alshamary; Tareq Y. Al-Naffouri; Alam Zaib; Weiyu Xu			
		An Autoregressive Model for a single-nop ketay channel Applying Metropolis-Hastings-Within-Gibbs algorithm for data detection in relay-based communication system Optimal Non-coherent Data Detection for Massive SIMO Wireless Systems: A Polynomial Complexity Solution Impact of Timing and Frequency Offsets on Multicarrier Waveform Candidates for 5G	Tadesse Ghirmai Tadesse Ghirmai Haider Alshamary; Tareq Y. Al-Naffouri; Alam Zaib; Weiyu Xu Amir Aminjavaheri; Arman Farhang; Ahmad RezazadehReyhani; Behrouz Farhang-Boroujeny			
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	M2	An Autoregressive Model for a single-nop Ketay channel Applying Metropolis-Hastings-Within-Gibbs algorithm for data detection in relay-based communication system Optimal Non-coherent Data Detection for Massive SIMO Wireless Systems: A Polynomial Complexity Solution Impact of Timing and Frequency Offsets on Multicarrier Waveform Candidates for 5G Practical Insights on Full-Duplex Personal Wireless Communications Gained from Operational Experience in the Adaptive Methods for Estimation, Coherent Combination of Signals From Diverse Sensors Using Extended Kalman Filter for Robust Control of a Flying Inverted Pendulum Adaptive Likelihood Codebook Reordering Vector Quantization for 1-D Data Sources	Tadesse Ghirmai Tadesse Ghirmai Haider Alshamary; Tareq Y. Al-Naffouri; Alam Zaib; Weiyu Xu Amir Aminjavaheri; Arman Farhang; Ahmad RezazadehReyhani; Behrouz Farhang-Boroujeny Glenn Collins Compression, Fusion and Control Todd Moon; Jake Gunther; McKay Bonham; Gustavious P Williams D. Maughan; Ishmaal Erekson; Rajnikant Sharma Chu Meh Chu; Nathan Parrish; David Anderson			
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		Tuesday = 11th					
		Signal Processing Applications: Finance, Radio Astronomy, Radar					
		Spectral Analysis of Stock-Return Volatility, Correlation, and	Shomesh Chaudhuri; Andrew W Lo				
	T1	Fast Raw Data Simulator of Extended Scenes for Bistatic Forward-looking Synthetic Aperture Radar with Constant	Ziqiang Meng; Yachao Li; Mengdao Xing; Zheng Bao				
		Analysis to Distinguish Range Deception Jamming with Kernel Local Fisher Discriminant	Sajjad Abazari Aghdam; Mahdi Nouri				
		The Cross-Ambiguity Function for Emitter Location and Radar - Practical Issues for Time Discretization	James Schatzman				
		You're Crossing the Line: Localizing Border Crossings Using Wireless RF Links	Peter Hillyard; Neal Patwari; Samira Daruki; Suresh Venkatasubramanian				
		Compensating for Oversampling Effects in Polyphase Channelizers: A Radio Astronomy Application	John Tuthill; Grant Hampson; John Bunton; Frederic j harris; Andrew Brown; Richard Ferris; Timothy Bateman				
		ASKAP Radio Telescope	Hellbourg; Aaron Chippendale				
		A Reconfigurable Optically Connected Beamformer and Correlator Processing Node for SKA	Grant Hampson; John Tuthill; Andrew Brown; John Bunton; Timothy Bateman				
		Cancelling non-linear processing products due to strong out-of- band interference in radio astronomical arrays	Yifeng Wu; Richard A Black; Brian D. Jeffs				
		subspace smearing and interference mitigation with array radio telescopes	Gregory Hellbourg				
		Compressive Sensing	and Reconstruction				
		Approximate Regularization Paths for Nuclear Norm Minimization Using Singular Value Bounds	Niclas Blomberg; Cristian Rojas; Bo Wahlberg				
		Learning Anomalous Features via Sparse Coding Using Matrix Norms	Bradley Whitaker; David Anderson				
		Sparse Recovery Using an SVD Approach to Interference Removal and Parameter Estimation	Charles Hayes; James H McClellan; Waymond R Scott, Jr.				
	T1	Noise based on Blind Inpainting	Sergio D Cabrera				
		Polarimetric target decomposition based on sparse attributed scattering center base decomposition	Jia Duan; Lei Zhang; Yifeng Wu				
Tuesday		Fast Imaging In Cannula Microscope Using Orthogonal Matching Pursuit	Ahmad Zoubi; Kishan Supreet Alguri; Ganghun Kim; V. John Mathews; Rajesh Menon; Joel Harley				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		On The Block-Sparsity Of Multiple-Measurement Vectors	Mohammad Shekaramiz; Todd Moon; Jake Gunther				
		Sensing to CRYO-Electron Tomography Reconstruction	Sally Wood; Ernesto Fontenia; Christopher Metzler; Wah Chiu; Richard Baraniuk				
	Spectral Estimation Array Processing Signal Separation						
		Parametric spectral signal restoration via maximum entropy	Hai Liu; Zhaoli Zhang; Sanya Liu; Jiangbo Shu; Tingting Liu				
		A new method for determination of instantaneous pitch	Abhay Upadhyay; Ram Bilas Pachori				
		Source Localization with Sparse Recovery for Coherent Far- and	Ahmet M Elbir; T. Engin Tuncer				
	Т2	Direction Finding and Localization for Far-Field Sources with Near-Field Multipath Reflections	Ahmet M Elbir; T. Engin Tuncer				
		Shrinkage estimation of spectral matrices: A EEG analysis centered approach	Deborah Schneider-Luftman				
		Memory Efficient Spectral Estimation on Parallel Computing Architectures	Michael Barjenbruch; Franz Gritschneder; Jens Klappstein; Juergen Dickmann; Klaus Dietmayer				
		Extracting The Fundamental Frequency of a Nonlinear Chirp Signal with Modulated Harmonic Structure Using ML, Target Tracking, and the Viterbi Macrithm	Todd Moon; Jake Gunther; Gustavious P Williams				
		Using the ARM Cortex-M4 and the CMSIS-DSP Library for Teaching Real-Time DSP	Mark Wickert				
	T2	Using the IPython Notebook as the Computing Platform for Signals and Systems Courses	Mark Wickert; McKenna Lovejoy				
		DSP Education by Fixed-Point Implementation & Measurement	Jorge Cadena; A. A. (Louis) Beex				
		The Lab-in-a-box Project: An Arduino Compatible Signals And Electronics Teaching System	William Esposito; Fernando A Mujica; Domingo Garcia; Gregory T.A. Kovacs				
		Teaching Digital Signal Processing with Stanford's Lab-in-a-Box	Fernando A Mujica; William Esposito; Alex Gonzalez; Charles R Qi; Christopher Vassos; Maisy Wieman; Reggie Wilcox; Gregory T.A. Kovacs; Ronald Schafer				
		Using smartphones as mobile implementation platforms for applied digital signal processing courses	Nasser Kehtarnavaz				
		Leveraging Student Knowledge of DSP for Optical Engineering	Cameron Wright; Thad B. Welch; Michael Morrow				

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		Wedee 42	1).		
	weanesday = 12th				
	Image Processing, Video Processing, Hyperspectral and Multispectral Image Processing				
Wednesday		Face Recognition in Vehicles with Near Infrared Frame Differencing	Jinwoo Kang; David Anderson; Monson Hayes		
		Evaluating the performance of Max Current AC-DCT based colored Digital Image Fusion for Visual Sensor Network's	Arun Begill; Shruti Puniani; Kamaljot Singh; Navjot Kaur		
	W1	Body markers detection based on 3D video processing oriented to children gait analysis	Mario Chacon; Carlos Avalos; Omar Arias		
		Eigen-gap of Structure Transition Matrix: A New Criterion for Image Quality Assessment	Mohsen Joneidi; Mostafa Rahmani; Hossein Bakhshi Golestani; Mohammad Ghanbari		
		Image Loss Concealment Using Edge-Guided Interpolation and Multi-scale Transformation	Bahareh Langari; John Stonham; Alireza Mousavi		
		A Practical Strategy for Spectral Library Partitioning and Least-Squares Identification	Shawn Higbee		
		Temperature Emissivity Separation: Estimation with a Parameter Affecting Both the Mean and Variance of the	Todd Moon; David Neal; Jake Gunther; Gustavious P Williams		
		Signal Processing Techniques for Enhancing Multispectral Images of Ancient Documents	Trace Griffiths; Gene Ware; Todd Moon		
	Neural Networks, Machine Learning				
		A Novel Method for Blind Segmentation of Thai Continuous Speech	Siripong Potisuk		
		Mapping Arabic Acoustic Parameters to Their Articulatory Features Using Neural Networks	Yousef A Alotaibi; Yasser M Seddiq		
		A neural bio-inspired scheme for head pose recognition	Mario Chacon; Huber Orozco; Juan Ramirez		
	W1	Deep Emotion Recognition using Prosodic and Spectral Feature Extraction and Classification based on Cross Validation and	Ayush Sharma; David Anderson		
		Traffic Flow Forecasting Research Based on Bayesian Normalized Elman Neural Network	Wenchi Ma		