Tuesday 16 December

14:00	15:30	*Compressive Signal Processing*	Professor Richard Baraniuk
15:30	16:00	*Beyond Bandlimited Sampling: Nonideal Sampling, Smoothness and Sparsity*	Yonina C. Eldar, Tsvi Dvorkind and Moshe Mishali
16:00	16:30	*Non-negative Matrix Factorisation of Compressively-Sampled Non-Negative Signals*	Paul D. O'Grady and Scott T. Rickard
16:30	18:00	Tea & Posters	
		Decompounding on compact Lie groups	Nicolas Le Bihan, S. Said, C. Lageman, J.H. Manton and L. Margerin
		Sparse time-frequency distributions of chirps from a compressed sensing perspective	Patrick Flandrin and Pierre Borgnat
		The Time-Frequency Representation of Ordinary Differential Equations	Heidi Hindberg and Alfred Hanssen
		A new overdetermined frequency domain blind source separation approach	Yonggang Zhang, Syed Mohsen Naqvi, Sangarapillai Lambotharan and Jonathon A. Chambers
Posters		*A Multi-User SC-FDE-MIMO System Exploiting Robust SLR-Based Beamforming*	A. Aljohani and J. Chambers
		A Sampling Theorem For Bilevel Polygons Using E-Splines	Hojjat Akhondi Asl and Pier Luigi Dragotti
		A Simple Alamouti Single-Carrier Space-Time Relaying Scheme for use in Asynchronous Wireless Relay Networks	M Hayes, J.A.Chambers and M.D.Macleod
		Comparison of Localization Algorithms using Time Delay of Arrival Estimates	Aishwarya Moni and Scott Rickard
		Microstructure Bias and Multiscale Model Choice	Sofia Olhede, Adam Sykulski and Greg Pavliotis
		Wavelet Transform in Image Regions Classification	Ales Prochazka, Eva Hostalkova, and Andrea Gavlasova

Wednesday 17 December

09:00	09:30	*About the extension of the 1D analytic signal to improper complex valued signals*	N. Le Bihan and S.J. Sangwine
09:30	10:00	*Estimation of Frequency Trajectories using Parsimonious Time-Varying Auto-Regressive Models with Particle Filters*	H. Zheng, P.R. White and Chengming Pei
10:00	10:30	*New Skew-Radial Basis Functions for Time-Series Prediction*	Arta A. Jamshidi and Michael J. Kirby
10:30	11:00	*On the hops present in Costas permutations*	Konstantinos Drakakis
		Generated, emergent, and sporadic Costas arrays	K. Taylor, K. Drakakis, S. Rickard
11:00	12:45	Coffee & Posters	
Posters		*Distributed Parameter Estimation with Side Information*	James P. Reilly, James P. Reilly and Shahram Shirani
		On the estimation of the entropy using k-th nearest neighbors	Pierre-Olivier Amblard, Olivier Michel, Steeve Zozor and Ana Maria Cuculescu
		Planar Local 2D Signal Processing by Generalized Hilbert Transforms on S^3	Lennart Wietzke and Gerald Sommer
		Spectral Analysis via Analytic Signal – based Instantaneous Frequency Estimation.	Steve McLaughlin, Yannis Kopsinis

		Fast Adaptive Image In-painting Using the Prolate Spheroidal Sequences	Roland Wilson and Hong Xiao
		Time-Varying Speech Models for Online Blind Dereverberation	James R. Hopgood, Christine Evers, Sharad Nagappa
		An Algorithm for Calculating the QR Decomposition of a Polynomial Matrix	Joanne Foster, John McWhirter and Jonathon Chambers
		Companding in the RF front-end to reduce adjacent channel interference resulting in a lower required ADC resolution for Software Defined Radio	C.H. Slump and R. Schiphorst
12:45	14:00	Lunch	
14:00	14:30	*A Comparison of Delay Estimation & Bottleneck-link Detection Methods for Network Tomography*	Nick Johnson, John Thompson, Steve McLaughlin and Francisco J. Garcia
14:30	15:00	*Peak-to-average power ratio mitigation in quasi-orthogonal space time block coded MIMO-OFDM systems exploiting cross-antenna rotation and inversion*	F.S. Alharbi and Jonathon A. Chambers
15:00	15:30	*One Microphone Audio Source Separation Using Convolutive Non-negative Matrix Factorization with Sparseness Constraints*	Wenwu Wang
15:30	16:00	*Optimal Microphone Placement for Active Speaker Localization*	Damien Kelly and Frank Boland
16:00	18:00	Tea & Posters	
		Density Estimation by k Nearest Neighbours	Prof. John Hudson
		Compressed Sensing Reconstruction using Iterative Hard Thresholding	Thomas Blumensath and Mike E. Davies
		A Generalized Blind Lag Hopping Adaptive Channel Shortening Algorithm which Exploits Squared Auto Correlation Minimization (GLHSAM)	K. Maatoug and J.A.Chambers
		DSP for Coherent Optical Systems	David Millar and Seb Savory
Posters		*A Multivector Teager Filter*	Sven Buchholz, Gerald Sommer and Hendrik Schnepel
		A functional approach to signal processing under nonlinear constraints	Salem Said and N. Le Bihan
		Statistical, Spectral and Stochastic Characteristics of Music	Jacqueline Walker and Declan Quinn
		Sparse Multi-channel Echoic Source Separation	Ruairi de Frein, Barak A. Pearlmutter and Scott T. Rickard
		Head Related Impulse Response Simplification by Deconvolution.	Claire Masterson and Frank Boland
		Time-Frequency Surrogates for Nonstationary Signal Analysis	Pierre Borgnat and Patrick Flandrin

Thursday 18 December

09:00	09:30	*Dual Number Subalgebras mapped to Digital Signal Processing Structures*	D Alfsmann and Heinz G. Göckler
09:30	10:00	*Multivariate Time Series Graphical Modelling for Analysis of Brain Connectivity*	Andrew Walden, Tarek Medkour and Adrian Burgess

10:00	10:30		*Directed information flow through scales*	Pierre-Olivier Amblard and Olivier Michel
10:30	11:00		*Folding and encryption of compressible data*	Laura Rebollo-Neira and James Bowley
11:00	12:45	Posters		
			Non-statationary chaos modelling approach based on processes with random structure	V. Kontorovich & Z. Lovtchikova
			Design of Flexible-Length Fast Fourier Transform For Channel Bandwidth Optimisation	Dr. Keith John Jones
			Design of Real-Data Fast Fourier Transform For Power-Constrained Environments	Dr. Keith John Jones
			Polynomial Matrix QR Decomposition for Broadband MIMO Wireless Communications	Martin Davies, J. Foster, J. Chambers, S. Lambotharan and J. McWhirter
		Posters	*A Signal Processing Approach to Countering the Security of DM-QIM as a Steganographic Principle*	B.R.Matam and David Lowe
			A Subspace Approach to Detect Directional Causality in Multiple Time Series	Erik Casagrande and David Lowe
			Binaural Speech Separation Based on Convolutive ICA and Ideal Binary Mask Coupled with Cepstral Smoothing	Wenwu Wang, Tariqullah Jan and DeLiang Wang
			Particle Filtering with Optimal Measurement Selection	Kiriakos Kiriakidis, John W. Nicholson, Melinda Hock, Keunha Lee and Edward N. Khoury
			Wavelet-based transforms as a means of signal separation	Jacqueline Walker and Declan Quinn
12:45	14:00	Lunch		