Mathematical Signal Processing and Phase Retrieval
Göttingen, 01.-03. September 2014

PROGRAM

Monday September 1, 2014

13.50	*Opening*	
	Chair: Kutyniok	
14.00 – 14:55	Aldroubi	Dynamical sampling and time space tradeoff for signal sampling and reconstruction
15.00 – 15:25	Straub	Generalized sampling reconstruction of in vivo MRI data
15.30 – 15:55	Bouchot	Graded HTP: Using a hard tresholding operator in a greedy manner
16.00 – 16:30	*Coffee break*	
	Chair: Krahmer	
16.30 – 16:55	Ma	Reconstruction from Fourier data by using compactly supported shearlets
17:00 – 17:25	Petersen	Regularization and numerical solution of the inverse scattering problem using shearlet frames
17.30 – 17:55	Pfander	A polarization based phase retrieval algorithm for Gabor frame measurements
18.00 – 18:25	Welk	Discrete well-posedness and stability for forward-and-backward diffusion
18.30	*Dinner*	
19.30 – 21:00	Poster session	

Tuesday, September 2, 2014

	Chair: Luke	
09.00 – 09:55	Ehler	Phase retrieval using subspace measurements
10.00 – 10:25	Nadler	Vectorial phase retrieval
10.30 – 10:55	Philipp	Measures of scalability
11.00 – 11:30	*Coffee break*	
	Chair: Rauhut	
11.30 – 11:55	Beinert	Ambiguities in one-dimensional phase retrieval from Fourier magnitudes
12.00 – 12:25	Jüstel	Scattering of time-harmonic radiation – a generalized phase retrieval problem
12.30 – 12:55	Krahmer	A partial derandomization of phase retrieval via phaselift
13.00	*Lunch break*	
	Chair: Nadler	
14.30 – 14:55	Marchesini	Phase retrieval in high dimensions
15.00 – 15:25	Sigl	Quasilinear compressed sensing for phase retrieval
15.30 – 15:55	Rauhut	Interpolation via compressive sensing
16.00 – 16:30	*Coffee break*	
	Chair: Prestin	
16.30 – 16:55	Wannenwetsch	A sparse FFT algorithm for nonnegative vectors
17.00 – 17:25	Sabach	Simultaneous reconstruction of object and illumination function from ptychographic data
17.30 – 17:55	Karabash	Can one hear the tones of a signal through the noise?
18:00 – 18:30		General assembly of the GAMM activity group Mathematical signal and image processing
18.30	*Dinner*	

Wednesday, September 3, 2014

	Chair: Steidl	
09.00 – 09:55	Fadili	Low complexity regularization of linear inverse problems
10.00 – 10:25	Pierre	Variational method for image colorization
10.30 – 10:55	Bergmann	Second order differences of cyclic data and applications in variational denoising
11.00 – 11:30	*Coffee break*	
	Chair: Plonka-Hoch	
11.30 – 11:55	Fitschen	Disparity and optical flow partitioning using extended Potts priors
12.00 – 12:25	Holler	Infimal-convolution of total-variation-type functionals as regularization for video reconstruction
12.30 – 12:55	Schäfer	The framework of alpha-molecules
13.00	*Lunch*	
14.00		*Walk through the woods or excursion in Göttingen (2 hours)*

Poster session on Monday, September 1, 2014, 19.30 – 21.00

Breuß	Colour Amoeba median filtering
Cherugondi	Regularization methods for monotone variational inequalities
Khanian	Perspective photometric stereo with highlights
Neumann	Rank minimization in phase retrieval using projection methods
Loock	Phase retrieval for Fresnel measurements using a shearlet sparsity constraint
Philipp	Stable phase retrieval from very few measurements