

2015 International Conference on Sampling Theory and Applications

(SampTA 2015)

**Washington, DC, USA
25-29 May 2015**



**IEEE Catalog Number: CFP1520U-POD
ISBN: 978-1-4673-7354-8**

TABLE OF CONTENTS

GENERALIZED POISSON SUMMATION FORMULA FOR TEMPERED DISTRIBUTIONS.....	1
<i>Nguyen, Ha Q. ; Unser, Michael</i>	
ON A TIME-FREQUENCY APPROACH TO TRANSLATION ON FINITE GRAPHS	6
<i>Begue, Matthew</i>	
UWB SIGNAL PROCESSING: PROJECTION, B-SPLINES, AND MODIFIED GEGENBAUER BASES	11
<i>Casey, Stephen D. ; Cohl, Howard S.</i>	
MAXIMALLY CONCENTRATED SIGNALS IN THE SPECIAL AFFINE FOURIER TRANSFORMATION DOMAIN.....	16
<i>Zayed, Ahmed I.</i>	
CARDINAL SINE SERIES: OVERSAMPLING AND NON-EXISTENCE.....	21
<i>Bailey, B.A. ; Madych, W.R.</i>	
COMPRESSIVE SENSING WITH REDUNDANT DICTIONARIES AND STRUCTURED MEASUREMENTS.....	25
<i>Krahmer, Felix ; Needell, Deanna ; Ward, Rachel</i>	
ANALYSIS OF SPARSE RECOVERY IN MIMO RADAR.....	30
<i>Dorsch, Dominik ; Rauhut, Holger</i>	
NONUNIFORM SPARSE RECOVERY WITH RANDOM CONVOLUTIONS	34
<i>James, David ; Rauhut, Holger</i>	
MODELING AND RECOVERING NON-TRANSITIVE PAIRWISE COMPARISON MATRICES	39
<i>Yang, Dehui ; Wakin, Michael B.</i>	
REGULAR OPERATOR SAMPLING FOR PARALLELOGRAMS	44
<i>Pfander, Gotz E. ; Walnut, David</i>	
ON BOUNDEDNESS INEQUALITIES OF SOME SEMI-DISCRETE OPERATORS IN CONNECTION WITH SAMPLING OPERATORS.....	48
<i>Kivinukk, Andi ; Metsmagi, Tarmo</i>	
ON APPROXIMATION PROPERTIES OF GENERALIZED KANTOROVICH-TYPE SAMPLING OPERATORS	53
<i>Orlova, Olga ; Tamberg, Gert</i>	
UNIFIED CONVEX OPTIMIZATION APPROACH TO SUPER-RESOLUTION BASED ON LOCALIZED KERNELS	58
<i>Bendory, Tamir ; Dekel, Shai ; Feuer, Arie</i>	
WAVELET COORBIT THEORY IN HIGHER DIMENSIONS: AN OVERVIEW.....	63
<i>Fuhr, Hartmut</i>	
SAMPLING, AMENABILITY AND THE KUNZE-STEIN PHENOMENON.....	68
<i>Christensen, Jens Gerlach ; Olafsson, Gestur ; Casey, Stephen D.</i>	
SAMPLING AND INTERPOLATION ON CERTAIN NILPOTENT LIE GROUPS.....	73
<i>Currey, Brad ; Mayeli, Azita ; Oussa, Vignon</i>	
RECONSTRUCTION OF SPARSE MULTIBAND WAVELET SIGNALS FROM FOURIER MEASUREMENTS.....	78
<i>Chen, Yang ; Cheng, Cheng ; Sun, Qiyu</i>	
SAMPLING SOLUTIONS OF SCHRODINGER EQUATIONS ON COMBINATORIAL GRAPHS.....	82
<i>Pesenson, Isaac Z.</i>	
A CLASS OF FRAMES FOR PALEY-WIENER SPACES WITH MULTIPLE LATTICE TILES SUPPORT	86
<i>Tampubolon, Ezra ; Pohl, Volker ; Boche, Holger</i>	
ON MINIMAL SCALINGS OF SCALABLE FRAMES	91
<i>Domagalski, Rachel ; Kim, Yeon Hyang ; Narayan, Sivaram K.</i>	
A CHARACTERIZATION OF TIGHT AND DUAL GENERALIZED TRANSLATION INVARIANT FRAMES	96
<i>Jakobsen, Mads Sielemann ; Lemvig, Jakob</i>	
THE DUAL FRAME INDUCED BY AN INVERTIBLE FRAME MULTIPLIER.....	101
<i>Stoeva, Diana T. ; Balazs, Peter</i>	
STABLE NONUNIFORM SAMPLING WITH WEIGHTED FOURIER FRAMES AND RECOVERY IN ARBITRARY SPACES.....	105
<i>Adcock, Ben ; Gataric, Milana ; Hansen, Anders C.</i>	

WEAVING PROPERTIES OF HILBERT SPACE FRAMES	110
<i>Casazza, Peter G. ; Lynch, Richard G.</i>	
PROLATE SHIFT FRAMES AND THEIR DUALS	115
<i>Hogan, Jeffrey A. ; Lakey, Joseph D.</i>	
WAVELET FRAMES GENERATED BY BANDPASS PROLATE FUNCTIONS	120
<i>Hogan, Jeffrey A. ; Lakey, Joseph D.</i>	
SAMPLING AND RECOVERY USING MULTIQUADRICS	124
<i>Hamm, Keaton</i>	
TIME-FREQUENCY REPRESENTATIONS FOR NONLINEAR FREQUENCY SCALES — COORBIT SPACES AND DISCRETIZATION	129
<i>Holighaus, Nicki ; Balazs, Peter ; Wiesmeyr, Christoph</i>	
AN AMALGAM BALIAN-LOW THEOREM FOR SYMPLECTIC LATTICES OF RATIONAL DENSITY	134
<i>Cabrelli, Carlos ; Molter, Ursula ; Pfander, Gotz E.</i>	
THE FINITE BALIAN-LOW CONJECTURE	139
<i>Lammers, Mark ; Stampe, Simon</i>	
DUALITY RESULTS FOR CO-COMPACT GABOR SYSTEMS	144
<i>Jakobsen, Mads Sielemann ; Lemvig, Jakob</i>	
ON OPTIMAL FRAME CONDITIONERS	148
<i>Clark, Chae A. ; Okoudjou, Kasso A.</i>	
DETERMINISTIC CONSTRUCTION OF QUASI-CYCLIC SPARSE SENSING MATRICES FROM ONE-COINCIDENCE SEQUENCE	153
<i>Zeng, Weijun ; Wang, Huali ; Xu, Guangjie ; Gan, Lu</i>	
STABILITY IN BLIND DECONVOLUTION OF SPARSE SIGNALS AND RECONSTRUCTION BY ALTERNATING MINIMIZATION	158
<i>Lee, Kiryung ; Li, Yanjun ; Junge, Marius ; Bresler, Yoram</i>	
NONLINEAR SAMPLING FOR SPARSE RECOVERY	163
<i>Hosseini, Seyed Amir-Hossein ; Khalilsarai, Mahdi Barzegar ; Amini, Arash ; Marvasti, Farokh</i>	
MATRIX COHERENCY GRAPH: A TOOL FOR IMPROVING SPARSE CODING PERFORMANCE	168
<i>Joneidi, Mohsen ; Zaeemzadeh, Alireza ; Rahnavard, Nazanin ; Khalilsarai, Mahdi Barzegar</i>	
FROM QUANTUM TOMOGRAPHY TO PHASE RETRIEVAL AND BACK	173
<i>Kech, Michael ; Wolf, Michael</i>	
THE FISHER INFORMATION MATRIX AND THE CRLB IN A NON-AWGN MODEL FOR THE PHASE RETRIEVAL PROBLEM	178
<i>Balan, Radu</i>	
PROJECTION RETRIEVAL: THEORY AND ALGORITHMS	183
<i>Fickus, Matthew ; Mixon, Dustin G.</i>	
POLARIZATION BASED PHASE RETRIEVAL FOR TIME-FREQUENCY STRUCTURED MEASUREMENTS	187
<i>Salanevich, Palina ; Pfander, Gotz E.</i>	
SPHERICAL DESIGNS AS A TOOL FOR DERANDOMIZATION: THE CASE OF PHASELIFT	192
<i>Kueng, Richard ; Gross, David ; Kraemer, Felix</i>	
A SMALL FRAME AND A CERTIFICATE OF ITS INJECTIVITY	197
<i>Vinzant, Cynthia</i>	
THE STRUCTURE OF TEST FUNCTIONS THAT DETERMINE WEIGHTED COMPOSITION OPERATORS	201
<i>Gibson, Peter C. ; Tavalla, Mohammad S.</i>	
DIRECTIONALLY SENSITIVE WEIGHT FUNCTIONS	206
<i>Aceska, Roza ; Giv, Hossein Hosseini</i>	
A GENERAL APPROACH FOR CONVERGENCE ANALYSIS OF ADAPTIVE SAMPLING- BASED SIGNAL PROCESSING	211
<i>Boche, Holger ; Monich, Ullrich J.</i>	
ON THE STRONG DIVERGENCE OF HILBERT TRANSFORM APPROXIMATIONS FROM SAMPLED DATA	216
<i>Boche, Holger ; Pohl, Volker</i>	
SAMPLING AND (SPARSE) STOCHASTIC PROCESSES: A TALE OF SPLINES AND INNOVATION	221
<i>Unser, Michael</i>	
STATISTICAL OPTIMALITY OF HERMITE SPLINES	226
<i>Uhlmann, Virginie ; Fageot, Julien ; Gupta, Harshit ; Unser, Michael</i>	

INTERPRETATION OF CONTINUOUS-TIME AUTOREGRESSIVE PROCESSES AS RANDOM EXPONENTIAL SPLINES	231
<i>Fageot, Julien ; Ward, John Paul ; Unser, Michael</i>	
COMPRESSIBILITY OF SYMMETRIC-A-STABLE PROCESSES	236
<i>Ward, John Paul ; Fageot, Julien ; Unser, Michael</i>	
KRAMER'S GENERALIZED SAMPLING OF STOCHASTIC PROCESSES	241
<i>Kang, Sinuk</i>	
WEIGHTED TOTAL GENERALIZED VARIATION FOR COMPRESSIVE SENSING RECONSTRUCTION	244
<i>Wang, Si ; Guo, Weihong ; Huang, Ting-Zhu</i>	
PARAMETER ESTIMATION FROM SAMPLES OF STATIONARY COMPLEX GAUSSIAN PROCESSES	249
<i>Hurley, Paul ; Ocal, Orhan</i>	
NONUNIFORM SAMPLING WITH ADAPTIVE EXPECTANCY BASED ON LOCAL VARIANCE	254
<i>Guicquero, W. ; Verdant, A. ; Dupret, A. ; Vandergheynst, P.</i>	
ANALYSIS OF GENERALIZED RIDGE FUNCTIONS IN HIGH DIMENSIONS	259
<i>Keiper, Sandra</i>	
NUMERICAL SOLUTION OF UNDERDETERMINED SYSTEMS FROM PARTIAL LINEAR CIRCULANT MEASUREMENTS	264
<i>Bouchot, Jean-Luc ; Cao, Lei</i>	
CORRECTLY SIZING FIR FILTER ARCHITECTURE IN THE FRAMEWORK OF NON-UNIFORM SAMPLING	269
<i>Simatic, Jean ; Fesquet, Laurent ; Bidegaray-Fesquet, Brigitte</i>	
ON THE EXISTENCE OF EQUIVALENCE CLASS OF RIP-COMPLIANT MATRICES	274
<i>Sasmal, Pradip ; Sastry, C.S. ; Jampana, P.V.</i>	
DICTIONARY-SPARSE AND DISJOINTED RECOVERY	278
<i>Needham, Tom</i>	
EVENT-DRIVEN SAMPLING OF SIGNAL WITH QUADRATIC PREDICTION	283
<i>Grybos, Anna</i>	
COMPRESSED SENSING MRI USING SPARSITY INDUCED FROM ADJACENT SLICE SIMILARITY	287
<i>Hirabayashi, A. ; Inamuro, N. ; Mimura, K. ; Kurihara, T. ; Homma, T.</i>	
CONSTRUCTION OF ORTHONORMAL DIRECTIONAL WAVELETS BASED ON QUINCUNX DILATION SUBSAMPLING	292
<i>Yin, Rujie</i>	
ON RANDOM AND DETERMINISTIC COMPRESSED SENSING AND THE RESTRICTED ISOMETRY PROPERTY IN LEVELS	297
<i>Bastounis, Alexander ; Hansen, Anders C.</i>	
BIVARIATE SPLINES IN PIECEWISE CONSTANT TENSION	302
<i>Takahashi, Kunimitsu ; Kamada, Masaru</i>	
UNIVERSAL EMBEDDINGS FOR KERNEL MACHINE CLASSIFICATION	307
<i>Boufounos, Petros T. ; Mansour, Hassan</i>	
UNIQUE RECOVERY FROM EDGE INFORMATION	312
<i>Allen, Benjamin ; Kon, Mark</i>	
SUPERRESOLUTION OF REMOTELY SENSED IMAGES WITH ANISOTROPIC FEATURES	317
<i>Czaja, Wojciech ; Murphy, James M. ; Weinberg, Daniel</i>	
RECONSTRUCTION FROM FOURIER MEASUREMENTS USING COMPACTLY SUPPORTED SHEARLETS	322
<i>Ma, Jackie</i>	
FAST GABOR WAVELET TRANSFORM BASED ON SYNTHESIS OF GABOR SPECTRUM USING CONVOLUTION OF GAUSSIAN	327
<i>Ishikawa, Takanobu ; Takayama, Ryosuke ; Arai, Shuichi</i>	
RESOLUTION OF THE WAVE FRONT SET USING GENERAL WAVELET TRANSFORMS	332
<i>Fell, Jonathan ; Fuhr, Hartmut ; Voigtlaender, Felix</i>	
SIGNAL RECOVERY ON GRAPHS: RANDOM VERSUS EXPERIMENTALLY DESIGNED SAMPLING	337
<i>Chen, Siheng ; Varma, Rohan ; Singh, Aarti ; Kovacevic, Jelena</i>	
ERROR BOUNDS FOR NOISY COMPRESSIVE PHASE RETRIEVAL	342
<i>Bodmann, Bernhard G. ; Hammen, Nathaniel</i>	
STEINER EQUIANGULAR TIGHT FRAMES REDUX	347
<i>Fickus, Matthew ; Mixon, Dustin G. ; Peterson, Jesse D. ; Jasper, John</i>	

ON R-DUALS AND THE DUALITY PRINCIPLE	352
<i>Christensen, Ole ; Stoeva, Diana</i>	
GRAPH THEORETIC UNCERTAINTY PRINCIPLES	357
<i>Benedetto, John J. ; Koprowski, Paul J.</i>	
UNCONDITIONAL CONVERGENCE CONSTANTS OF HILBERT SPACE FRAME EXPANSIONS	362
<i>Casazza, Peter G. ; Lynch, Richard G. ; Tremain, Janet</i>	
2D SPARSE SAMPLING ALGORITHM FOR ND FREDHOLM EQUATIONS WITH APPLICATIONS TO NMR RELAXOMETRY	367
<i>Hafftko, Ariel ; Celik, Hasan ; Cloninger, Alexander ; Czaja, Wojciech ; Spencer, Richard G.</i>	
FROM PALEY GRAPHS TO DETERMINISTIC SENSING MATRICES WITH REAL-VALUED GRAMIANS	372
<i>Amini, Arash ; Bagh-Sheikhi, Hamed ; Marvasti, Farokh</i>	
NON-NEGATIVE DIMENSIONALITY REDUCTION FOR AUDIO SIGNAL SEPARATION BY NMF AND ICA	377
<i>Krause-Solberg, Sara ; Iske, Armin</i>	
ON THE MINIMAL NUMBER OF MEASUREMENTS IN LOW-RANK MATRIX RECOVERY	382
<i>Kabanava, Maryia ; Rauhut, Holger ; Terstiege, Ulrich</i>	
ANALYSIS OF LOW RANK MATRIX RECOVERY VIA MENDELSON'S SMALL BALL METHOD	387
<i>Kabanava, Maryia ; Rauhut, Holger ; Terstiege, Ulrich</i>	
FAST AND EXACT RECONSTRUCTION OF ARBITRARY MULTIVARIATE ALGEBRAIC POLYNOMIALS IN CHEBYSHEV FORM	392
<i>Potts, Daniel ; Volkmer, Toni</i>	
RECOVERY OF THIRD ORDER TENSORS VIA CONVEX OPTIMIZATION	397
<i>Rauhut, Holger ; Stojanac, Zeljka</i>	
LOW RANK MATRIX RECOVERY FROM FEW ORTHONORMAL BASIS MEASUREMENTS	402
<i>Kueng, Richard</i>	
COMPLETE DICTIONARY RECOVERY OVER THE SPHERE	407
<i>Sun, Ju ; Qu, Qing ; Wright, John</i>	
PHASE RETRIEVAL WITHOUT SMALL-BALL PROBABILITY ASSUMPTIONS: STABILITY AND UNIQUENESS	411
<i>Krahmer, Felix ; Liu, Yi-Kai</i>	
SOME RESULTS CONCERNING RANK-ONE TRUNCATED STEEPEST DESCENT DIRECTIONS IN TENSOR SPACES	415
<i>Uschmajew, Andre</i>	
GREEDY RANK UPDATES COMBINED WITH RIEMANNIAN DESCENT METHODS FOR LOW-RANK OPTIMIZATION	420
<i>Uschmajew, Andre ; Vandereycken, Bart</i>	
COMPRESSIVE SAMPLING OF STOCHASTIC MULTIBAND SIGNAL USING TIME ENCODING MACHINE	425
<i>Rzepka, Dominik ; Koczielnik, Dariusz ; Mickowicz, Marek</i>	
SAMPLING CIRCUITS FOR 1D AND 2D SENSORS FOR LOW-POWER PURPOSE	430
<i>Fesquet, Laurent ; Darwish, Amani ; Sicard, Gilles</i>	
DYNAMICAL SAMPLING WITH AN ADDITIVE FORCING TERM	435
<i>Aldroubi, Akram ; Kornelson, Keri</i>	
DYNAMICAL SAMPLING OF TWO-DIMENSIONAL TEMPORALLY-VARYING SIGNALS	440
<i>Aceska, Roza ; Petrosyan, Armenak ; Tang, Sui</i>	
FILTER RECOVERY IN INFINITE SPATIALLY INVARIANT EVOLUTIONARY SYSTEM VIA SPATIOTEMPORAL TRADE OFF	444
<i>Tang, Sui</i>	
MOBILE SAMPLING OF BANDLIMITED FIELDS	449
<i>Grochenig, Karlheinz ; Romero, Jose Luis ; Unnikrishnan, Jayakrishnan ; Vetterli, Martin</i>	
SPATIALLY DISTRIBUTED SAMPLING AND RECONSTRUCTION OF HIGH-DIMENSIONAL SIGNALS	453
<i>Cheng, Cheng ; Jiang, Yingchun ; Sun, Qiyu</i>	
GREEDY ALGORITHM FOR SUBSPACE CLUSTERING FROM CORRUPTED AND INCOMPLETE DATA	458
<i>Petukhov, Alexander ; Kozlov, Inna</i>	
OPTIMALLY SPARSE IMAGE APPROXIMATION BY ADAPTIVE LINEAR SPLINES OVER ANISOTROPIC TRIANGULATIONS	463
<i>Iske, Armin ; Demaret, Laurent</i>	

SAMPLING AND DISTORTION TRADEOFFS FOR BANDLIMITED PERIODIC SIGNALS	468
<i>Mohammadi, Elaheh ; Marvasti, Farokh</i>	
ADAPTIVE ESTIMATION AND COMPENSATION OF THE TIME DELAY IN A PERIODIC NON-UNIFORM SAMPLING SCHEME	473
<i>Vernhes, Jean-Adrien ; Chabert, Marie ; Lacaze, Bernard ; Lesthievant, Guy ; Baudin, Roland ; Boucheret, Marie-Laure</i>	
EFFICIENT DICTIONARY LEARNING VIA VERY SPARSE RANDOM PROJECTIONS	478
<i>Pourkamali-Anaraki, Farhad ; Becker, Stephen ; Hughes, Shannon M.</i>	
PARAMETER ESTIMATION FOR MIXTURE MODELS VIA CONVEX OPTIMIZATION	483
<i>Li, Yuanxin ; Chi, Yuejie</i>	
SIGNAL MODEL SPECIFICATION TESTING VIA KERNEL RECONSTRUCTION METHODS	488
<i>Pawlak, Mirosław</i>	
PARAMETER ESTIMATION FOR BIVARIATE EXPONENTIAL SUMS	493
<i>Diederichs, Benedikt ; Iske, Armin</i>	
RANDOMIZED KACZMARZ ALGORITHM FOR INCONSISTENT LINEAR SYSTEMS: AN EXACT MSE ANALYSIS	498
<i>Wang, Chuang ; Agaskar, Ameya ; Lu, Yue M.</i>	
APERIODIC GEOMETRY DESIGN FOR DOA ESTIMATION USING COMPRESSIVE SENSING	503
<i>Asghar, Sayed Zeeshan ; Ng, Boon Poh</i>	
OPTIMAL RECOVERY FROM COMPRESSIVE MEASUREMENTS VIA DENOISING-BASED APPROXIMATE MESSAGE PASSING	508
<i>Metzler, Christopher A. ; Maleki, Arian ; Baraniuk, Richard G.</i>	
BLIND COMPRESSED SENSING USING SPARSIFYING TRANSFORMS	513
<i>Ravishankar, Saiprasad ; Bresler, Yoram</i>	
RECOVERY GUARANTEES FOR TV REGULARIZED COMPRESSED SENSING	518
<i>Poon, Clarice</i>	
ENERGY ALLOCATION FOR PARAMETER ESTIMATION IN BLOCK CS-BASED DISTRIBUTED MIMO SYSTEMS	523
<i>Abtahi, Azra ; Modarres-Hashemi, M. ; Marvasti, Farokh ; Tabataba, Foroogh S.</i>	
COMPRESSED SENSING PETROV-GALERKIN APPROXIMATIONS FOR PARAMETRIC PDES	528
<i>Bouchot, Jean-Luc ; Bykowski, Benjamin ; Rauhut, Holger ; Schwab, Christoph</i>	
SPIKE DETECTION USING FRI METHODS AND PROTEIN CALCIUM SENSORS: PERFORMANCE ANALYSIS AND COMPARISONS	533
<i>Reynolds, Stephanie ; Onativia, Jon ; Copeland, Caroline S ; Schultz, Simon R ; Dragotti, Pier Luigi</i>	
GSURS: GENERALIZED SPARSE UNIFORM RESAMPLING WITH APPLICATION TO MRI	538
<i>Kiperwas, Amir ; Rosenfeld, Daniel ; Eldar, Yonina C.</i>	
RECOVERY OF PIECEWISE SMOOTH IMAGES FROM FEW FOURIER SAMPLES	543
<i>Ongie, Greg ; Jacob, Mathews</i>	
RESOLUTION LIMITS FOR ATOMIC DECOMPOSITIONS VIA MARKOV-BERNSTEIN TYPE INEQUALITIES	548
<i>Tang, Gongguo</i>	
ERROR ESTIMATES FOR FILTERED BACK PROJECTION	553
<i>Beckmann, Matthias ; Iske, Armin</i>	
DYNAMIC OPTIMAL TRANSPORT WITH MIXED BOUNDARY CONDITION FOR COLOR IMAGE PROCESSING	558
<i>Fitschen, Jan Henrik ; Laus, Friederike ; Steidl, Gabriele</i>	
SPARSE SOURCE LOCALIZATION IN PRESENCE OF CO-ARRAY PERTURBATIONS	563
<i>Koochakzadeh, Ali ; Pal, Piya</i>	
UNIQUENESS IN BILINEAR INVERSE PROBLEMS WITH APPLICATIONS TO SUBSPACE AND JOINT SPARSITY MODELS	568
<i>Li, Yanjun ; Lee, Kiryung ; Bresler, Yoram</i>	
BALAYAGE AND PSEUDO-DIFFERENTIAL OPERATOR FRAME INEQUALITIES	573
<i>Au-Yeung, Enrico ; Benedetto, John J.</i>	
EXACT RECONSTRUCTION OF A CLASS OF NONNEGATIVE MEASURES USING MODEL SETS	578
<i>Matei, Basarab</i>	
OPERATOR IDENTIFICATION ON THE CIRCLE	583
<i>Civan, Gokhan</i>	
UNIVERSAL FACTORIZATIONS OF QUASIPERIODIC FUNCTIONS	588
<i>Robinson, Michael</i>	

ON THE EFFECTIVE MEASURE OF DIMENSION IN TOTAL VARIATION MINIMIZATION	593
<i>Giryas, Raja ; Plan, Yaniv ; Vershynin, Roman</i>	
A NOVEL GEOMETRIC MULTISCALE APPROACH TO STRUCTURED DICTIONARY LEARNING ON HIGH DIMENSIONAL DATA	598
<i>Chen, Guangliang</i>	
PSEUDO PROLATE SPHEROIDAL FUNCTIONS	603
<i>Daniel Abreu, Luis ; Pereira, Joao M.</i>	
EIGENVECTOR LOCALIZATION ON DATA-DEPENDENT GRAPHS	608
<i>Cloninger, Alexander ; Czaja, Wojciech</i>	
ON A LOWER BOUND FOR A PERIODIC UNCERTAINTY CONSTANT	613
<i>Lebedeva, Elena A.</i>	
ACCURACY OF SPIKE-TRAIN FOURIER RECONSTRUCTION FOR COLLIDING NODES	617
<i>Akinshin, Andrey ; Batenkov, Dmitry ; Yomdin, Yosef</i>	
PHASE RETRIEVAL WITHOUT SMALL-BALL PROBABILITY ASSUMPTIONS: RECOVERY GUARANTEES FOR PHASELIFT	622
<i>Krahmer, Felix ; Liu, Yi-Kai</i>	
OPTIMAL TRADE-OFF BETWEEN SAMPLING RATE AND QUANTIZATION PRECISION IN SIGMA-DELTA A/D CONVERSION	627
<i>Kipnis, Alon ; Goldsmith, Andrea J. ; Eldar, Yonina C.</i>	
Author Index	