

Sunday, 11 September 2016

19:00 – 21:30	Welcome Reception (Robinson College)
---------------	--------------------------------------

Monday, 12 September 2016

	Main Auditorium	Umney Theatre
08:30 – 09:30	Plenary: Yonina Eldar (The Technion, Israel): Analog to Digital Compression	
09:40 – 11:20	Special Session on “Statistics and Computation” <i>Organized by Yihong Wu; Chair: Ioannis Kontoyiannis</i> Estimation in the Ising model <i>Quentin Berthet (University of Cambridge)</i> The Computational Power of Relative Entropy <i>Venkat Chandrasekaran (California Institute of Technology)</i> Combinatorial Inference <i>Han Liu (Princeton University)</i> Fast and guaranteed multichannel blind deconvolution under a bilinear channel model <i>Kiryung Lee (Georgia Institute of Technology), Ning Tian, and Justin Romberg</i> Context Trees and Model Selection for Discrete Time Series <i>Ioannis Kontoyiannis, Athina Panotopoulou, and Maria Skoularidou (Athens University of Economics and Business, Greece)</i>	Regular Session on “Computation” <i>Chair: Maxim Raginsky</i> A Relation Between Network Computation and Functional Index Coding Problems <i>Anindya Gupta and B. Sundar Rajan (Indian Institute of Science, India)</i> On Distributed Computing for Functions with Certain Structures <i>Shigeaki Kuzuoka (Wakayama University, Japan); Shun Watanabe (Tokyo University of Agriculture and Technology, Japan)</i> An Improved Upper Bound on Network Function Computation using Cut-Set Partition <i>Xuan Guang (The Chinese University of Hong Kong, P.R. China); Shenghao Yang (The Chinese University of Hong Kong, Shenzhen, P.R. China); Congduan Li (The Chinese University of Hong Kong, Hong Kong)</i> A Tight Upper Bound on the Mutual Information of Two Boolean Functions <i>Georg Pichler and Gerald Matz (Vienna University of Technology, Austria); Pablo Piantanida (CentraleSupélec-CNRS-Université Paris-Sud)</i> On Secure Computation Over the Binary Modulo-2 Adder Multiple-Access Wiretap Channel <i>Mario Goldenbaum (Princeton University, USA); Holger Boche (Technical University Munich, Germany); H. Vincent Poor (Princeton University, USA)</i>
11:20 – 11:50	Coffee Break	

	Main Auditorium	Umney Theatre
11:50 – 13:10	<p>Special Session on “Information Theory and Machine Learning”; <i>Chair: Venkatesh Saligrama</i></p> <p>Information-theoretic analysis of stability and bias of learning algorithms <i>Maxim Raginsky (University of Illinois at Urbana-Champaign), Alexander Rakhlin (University of Pennsylvania), Matthew Tsao and Yihong Wu (University of Illinois at Urbana-Champaign)</i></p> <p>Controlling Bias From Data Exploration Via Information Usage <i>Dan Russo (Microsoft Research and Northwestern)</i></p> <p>Sequential Sensor Selection <i>Venkatesh Saligrama (Boston University, USA)</i></p> <p>Collaborative Filtering with Low Regret <i>Guy Bresler (MIT, USA)</i></p>	<p>Regular Session on “Topics in Physical-Layer Security 1” <i>Chair: Matthieu Bloch</i></p> <p>K-User Degraded Broadcast Channel with Secrecy Outside a Bounded Range <i>Shaofeng Zou and Yingbin Liang (Syracuse University, USA); Lifeng Lai (Worcester Polytechnic Institute, USA); H. Vincent Poor (Princeton University, USA); Shlomo (Shitz) Shamai (The Technion, Israel)</i></p> <p>On the Secrecy Capacity of the Broadcast Wiretap Channel with Limited CSI Feedback <i>Amal Hyadi (King Abdullah University of Science and Technology, Saudi Arabia); Zouheir Rezki (University of Idaho, USA); Mohamed-Slim Alouini (King Abdullah University of Science and Technology (KAUST), Saudi Arabia)</i></p> <p>MIMO Gaussian Broadcast Channels with Common, Private and Confidential Messages <i>Ziv Goldfeld (Ben Gurion University, Israel)</i></p> <p>Jamming-Resistant Frequency Hopping System with Secret Key Generation from Channel Observations <i>Chia-Yu Liu and Yao-Win Peter Hong (National Tsing Hua University, Taiwan); Pin-Hsun Lin and Eduard Jorswieck (TU Dresden, Germany)</i></p>
13:10 – 14:10	Lunch	

	Main Auditorium	Umney Theatre
14:10 – 15:50	<p>Regular Session on “Topics in Statistics and Machine Learning 1” <i>Chair: Galen Reeves</i></p> <p>Symmetries in the Entropy Space <i>Jayant Apte (Drexel University, USA); Qi Chen (The Chinese University of Hong Kong, Hong Kong); John M. Walsh (Drexel University, USA)</i></p> <p>A universal entropy bound for the ϵ-entropy <i>Massimo Franceschetti (University of California at San Diego, USA)</i></p> <p>A Totally Geodesic Submanifold of the Multivariate Normal Distributions and Bounds for the Fisher-Rao Distance <i>Juliana Pinele (University of Campinas, Brazil); Joao Strapasson (FCA- University of Campinas, Brazil); Sueli I. R. Costa (State University of Campinas-UNICAMP, Brazil)</i></p> <p>On the Applications of the Minimum Mean p-th Error (MMPE) to Information Theoretic Quantities <i>Alex Dytso (University of Illinois at Chicago, USA); Ronit Bustin (Tel Aviv University, Israel); Daniela Tuninetti and Natasha Devroye (University of Illinois at Chicago, USA); H. Vincent Poor (Princeton University, USA); Shlomo (Shitz) Shamai (The Technion, Israel)</i></p> <p>Mutual Information in Rank-One Matrix Estimation <i>Florent Krzakala (Ecole Normale Supérieure, France); Jiaming Xu (University of California, Berkeley, USA); Lenka Zdeborova (Institut de Physique Théorique IPhT, CEA Saclay and CNRS, France)</i></p>	<p>Regular Session on “Channel Coding 1” <i>Chair: Daniel J. Costello</i></p> <p>Threshold Saturation of Spatially Coupled Sparse Superposition Codes for All Memoryless Channels <i>Jean Barbier, Mohamad Dia and Nicolas Macris (EPFL, Switzerland)</i></p> <p>Polar coding for empirical coordination of signals and actions over noisy channels <i>Giulia Cervia (ETIS, CNRS, ENSEA, UniversityCergy-Pontoise, France); Laura Luzzi (ENSEA; CNRS, Université de Cergy-Pontoise, France); Matthieu Bloch (Georgia Institute of Technology; Georgia Tech Lorraine, France); Mael Le Treust (ETIS / ENSEA, Université Cergy-Pontoise, CNRS, France)</i></p> <p>Nonasymptotic coding-rate bounds for binary erasure channels with feedback <i>Rahul Devassy, Giuseppe Durisi and Benjamin Lindqvist (Chalmers University of Technology, Sweden); Wei Yang (Princeton University, USA); Marco Dalai (University of Brescia, Italy)</i></p> <p>Improving Belief Propagation Decoding of Polar Codes Using Scattered EXIT Charts <i>Ahmed Elkelesh, Mostafa Ebada, Sebastian Cammerer and Stephan ten Brink (University of Stuttgart, Germany)</i></p> <p>MacWilliams' Identity for metrics determined by directed graphs <i>Roberto Machado (Unicamp, Brazil); Marcelo Firer (State University of Campinas - UNICAMP, Brazil)</i></p>
15:50 – 16:10	Coffee Break	

	Main Auditorium	Umney Theatre
16:10 – 17:50	<p>Regular Session on “Topics in Compression and Compressed Sensing 1” <i>Chair: Elza Erkip</i></p> <p>A Lower Bound for the Rate-Distortion Function of Spike Sources that is Asymptotically Tight <i>Lars Palzer and Roy Timo (Technische Universität München, Germany)</i></p> <p>Constant-Width Rate-Distortion Bounds for Power Distortion Measures <i>Kazuho Watanabe (Toyohashi University of Technology, Japan)</i></p> <p>Optimal Rate Allocation in Multiterminal Compress-and-Estimate Source Coding <i>Ruiyang Song (Tsinghua University, P.R. China); Stefano Rini (National Chiao Tung University, USA); Alon Kipnis and Andrea Goldsmith (Stanford University, USA)</i></p> <p>On Point-wise Redundancy Rate of Bender-Wolf's Variant of SWLZ Algorithm <i>Ayush Jain (Indian Institute of Technology, Kanpur); Rakesh K. Bansal (Indian Institute of Technology Kanpur; India, India)</i></p> <p>CROMqs: rateless lossy compression of quality scores <i>Idoia Ochoa, Albert No, Mikel Hernaez and Tsachy Weissman (Stanford University, USA)</i></p>	<p>Regular Session “Topics in Shannon Theory” <i>Chair: Anelia Somekh-Baruch</i></p> <p>Strong Converse for State Dependent Channels With Full State Information at the Sender and Partial State Information at the Receiver <i>Yasutada Oohama (University of Electro-Communications, Japan)</i></p> <p>On the Optimality of Randomized Time Division and Superposition Coding for the Broadcast Channel <i>Chandra Nair (Chinese University of Hong Kong, Hong Kong); Hyeji Kim and Abbas El Gamal (Stanford University, USA)</i></p> <p>Dual Capacity Upper Bounds for Noisy Runlength Constrained Channels <i>Andrew Thangaraj (IIT Madras, India)</i></p> <p>Network Equivalence for a Joint Compound-Arbitrarily-Varying Network Model <i>Oliver Kosut (Arizona State University, USA); Joerg Kliewer (New Jersey Institute of Technology, USA)</i></p> <p>Binary Distributed Hypothesis Testing via Körner-Martón Coding <i>Eli Haim (Tel-Aviv University, Israel); Yuval Kochman (The Hebrew University of Jerusalem, Israel)</i></p>
17:50 – 19:30	“Walking and Punting” excursion	

Tuesday, September 13

	Main Auditorium	Umney Theatre
08:30 – 09:30	Plenary: Andrew Blake (The Alan Turing Institute, London): Machines that learn: big data or explanatory models?	
09:30 – 09:50	Plenary: Professor Sir David MacKay, FRS Memorial Session	
10:00 – 11:20	<p>Special Session on “Recent advances in compressed sensing and sparse regularization” <i>Chair: Ben Adcock</i></p> <p>Multispectral Image Compression Using Universal Vector Quantization <i>Diego Valsesia (Politecnico di Torino) and Petros T Boufounos (Mitsubishi Electric Research Laboratories & Rice University)</i></p> <p>A framework for low-complexity signal recovery and its application to structured sparsity <i>Yann Traonmilin and Rémi Gribonval (INRIA Rennes)</i></p> <p>Diamond norm as improved regularizer for low rank matrix recovery <i>David Gross (University of Cologne)</i></p> <p>On foundational computational problems in sparse regularization <i>Anders Hansen (University of Cambridge)</i></p>	<p>Regular Session on “Caches and Storage 1” <i>Chair: Giuseppe Durisi</i></p> <p>On the Optimality of Uncoded Cache Placement <i>Kai Wan (L2S - CNRS - Supelec - Univ Paris-Sud, France); Daniela Tuninetti (University of Illinois at Chicago, USA); Pablo Piantanida (CentraleSupélec-CNRS-Université Paris-Sud, France)</i></p> <p>Correlation-Aware Distributed Caching and Coded Delivery <i>Parisa Hassanzadeh (New York University, USA) ; Antonia Tulino (Bell Labs; Università Federico II, Napoli, USA); Jaime Llorca (Bell Labs, Alcatel-Lucent, USA;) Elza Erkip (New York University, USA);</i></p> <p>Coded Caching for a Large Number Of Users <i>Mohammad Mohammadi Amiri, Qianqian Yang and Deniz Gündüz (Imperial College London, United Kingdom)</i></p> <p>Consistent Distributed Storage of Correlated Data Updates Via Multi-version Coding <i>Ramy E. Ali and Viveck Cadambe (Pennsylvania State University, USA)</i></p>
11:20 – 11:50	Coffee Break	

	Main Auditorium	Umney Theatre
11:50 – 13:10	<p>Special Session on “Information theory, statistics, and compressive sensing” <i>Chair: Phil Schniter</i></p> <p>General Performance Metrics for the LASSO <i>Ehsan Abbasi (California Institute of Technology), Christos Thrampoulidis (California Institute of Technology), and Babak Hassibi (California Institute of Technology)</i></p> <p>A Conditional Central Limit Theorem for Random Projections <i>Galen Reeves (Duke University)</i></p> <p>Online Learning for Sparse PCA in High Dimensions: Exact Dynamics and Phase Transitions <i>Chuang Wang and Yue M. Lu (Harvard University)</i></p> <p>A Robust Approximate Message Passing Algorithm <i>Philip Schniter (The Ohio State University), Alyson Fletcher (UCLA), and Sundeep Rangan (NYU Polytechnic)</i></p>	<p>Regular Session on “Topics in Physical-Layer Security 2” <i>Chair: Gerhard Kramer</i></p> <p>Keyless Asynchronous Covert Communication <i>Keerthi Suria Kumar Arumugam (Georgia Institute of Technology, USA); Matthieu Bloch (Georgia Institute of Technology; Georgia Tech Lorraine, France)</i></p> <p>Secret Key Generation Through a Relay <i>Kittipong Kittichokechai, Rafael F. Schaefer and Giuseppe Caire (Technische Universität Berlin, Germany)</i></p> <p>Keyless authentication in the presence of a simultaneously transmitting adversary <i>Eric Graves (Army Research Lab, USA); Paul Yu (Army Research Laboratory, USA); Predrag Spasojević (Rutgers University, USA)</i></p> <p>Simultaneously Generating Multiple Keys over a Cascade of a Noiseless Channel and a Wiretap Channel <i>Wenwen Tu (Worcester Polytechnic Institute, USA); Mario Goldenbaum (Princeton University, USA); Lifeng Lai (Worcester Polytechnic Institute, USA); H. Vincent Poor (Princeton University, USA)</i></p>
13:10 – 14:10	Lunch	

	Main Auditorium	Umney Theatre
14:10 – 15:50	<p>Regular Session on “Topics in Statistics and Machine Learning 2” <i>Chair: Massimo Franceschetti</i></p> <p>Clustering subgaussian mixtures with k-means <i>Dustin G. Mixon (Air Force Institute of Technology, USA); Soledad Villar (University of Texas at Austin, USA); Rachel Ward (University of Texas, USA)</i></p> <p>Anomaly Identification with Limited Sampling Budget <i>Julia Kuhn (The University of Queensland; University of Amsterdam, The Netherlands); Michel Mandjes (University of Amsterdam, The Netherlands); Thomas Taimre (The University of Queensland, Australia)</i></p> <p>Sequential Measurement-Dependent Noisy Search <i>Sung-En Chiu (University of California, San Diego, USA); Tara Javidi (UCSD, USA)</i></p> <p>Learning Adaptive Multiscale Approximations to Data and Functions near Low-Dimensional Sets <i>Wenjing Liao, Mauro Maggioni and Stefano Vigogna (Duke University, USA)</i></p> <p>Doubly Threshold Graphs for Social Network Modeling <i>Vida Ravanmehr, Sadegh Bolouki and Gregory J. Puleo (University of Illinois at Urbana-Champaign, USA); Olgica Milenkovic (UIUC, USA)</i></p>	<p>Regular Session on “Channel Coding 2” <i>Chair: Sundar Rajan</i></p> <p>On the Block Error Rate Performance of Spatially Coupled LDPC Codes for Streaming Applications <i>David G. M. Mitchell (New Mexico State University, USA); Ali E. Pusane (Boğaziçi University, Turkey); Michael Lentmaier (Lund University, Sweden); Daniel J. Costello, Jr. (University of Notre Dame, USA)</i></p> <p>Beyond Double Transitivity: Capacity-Achieving Cyclic Codes on Erasure Channels <i>Santhosh Kumar (Texas A&M University, USA); Robert Calderbank and Henry D Pfister (Duke University, USA)</i></p> <p>The Velocity of the Propagating Wave for General Scalar Systems <i>Rafah El-Khatib and Nicolas Macris (EPFL, Switzerland)</i></p> <p>Asymptotics of the Random-Coding Union Bound in Quasi-Static Fading Channels <i>Josep Font-Segura and Alfonso Martinez (Universitat Pompeu Fabra, Spain); Albert Guillén i Fàbregas (ICREA and Universitat Pompeu Fabra, Barcelona / University of Cambridge)</i></p> <p>An outer bound on the storage-bandwidth tradeoff of exact-repair regenerating codes and its asymptotic optimality in high rates <i>Hyuk Lee and Jungwoo Lee (Seoul National University, Korea)</i></p>
15:50 – 16:20	Coffee Break	

	Main Auditorium	Umney Theatre
16:20 – 18:00	<p>Regular Session on “Topics in Compression and Compressed Sensing 2” <i>Chair: Petros Boufounos</i></p> <p>Robust Nonnegative Sparse Recovery and 0/1-Bernoulli Measurements <i>Richard Kueng (University of Cologne, Germany); Peter Jung (TU-Berlin, Communications and Information Theory Group; Fraunhofer HHI - Heinrich Hertz Institute, Germany)</i></p> <p>Inferring Sparsity: Compressed Sensing using Generalized Restricted Boltzmann Machines <i>Eric W Tramel and Andre Manoel (École Normale Supérieure, France); Francesco Caltagirone (INRIA Paris, France); Marylou Gabrié (École Normale Supérieure, France); Florent Krzakala (Ecole Normale Supérieure, France)</i></p> <p>Optimal Sparse Recovery for Multi-Sensor Measurements <i>Il Yong Chun (Purdue University, USA); Ben Adcock (Simon Fraser University, Canada)</i></p> <p>Rate-Distortion Lower Bound for Compressed Sensing via Conditional Remote Source Coding <i>Markus Leinonen, Marian Codreanu and Markku Juntti (University of Oulu, Finland); Gerhard Kramer (Technical University of Munich, Germany)</i></p> <p>Orthogonal AMP for Compressed Sensing with Unitarily-invariant Matrices <i>Junjie Ma and Li Ping (City University of Hong Kong, Hong Kong)</i></p>	<p>Regular Session on “Wireless Communications 1” <i>Chair: Shlomo Shamai</i></p> <p>Cost of Local Cooperation in Hierarchical Virtual MIMO Transmission Schemes <i>Jinfeng Du (Nokia Bell Labs, USA); Muriel Médard (MIT, USA); Shlomo (Shitz) Shamai (The Technion, Israel)</i></p> <p>Dynamic pilot allocation over Markovian fading channels: A restless bandit approach <i>Maialen Larranaga (CentraleSupélec, France); Mohamad Assaad (CentraleSupélec, France); Apostolos Destounis (Huawei Technologies France Research Center, France); Georgios S. Paschos (Huawei Technologies, France)</i></p> <p>Lossy Compression for Compute-and-Forward in Limited Backhaul Wireless Relay Networks <i>Inaki Estella (Huawei Technologies Co., Ltd., France); Abdellatif Zaidi (Université Paris-Est Marne La Vallée, France)</i></p> <p>Optimally Bridging the Gap from Delayed to Perfect CSIT in the K-user MISO BC <i>Paul de Kerret (EURECOM, France); David Gesbert (Eurecom Institute, France); Jingjing Zhang and Petros Elia (EURECOM, France)</i></p> <p>On MIMO Phase Noise Channels at High SNR <i>Sheng Yang (Supélec, France); Shlomo (Shitz) Shamai (The Technion, Israel)</i></p>
19:00 – 22:30	Workshop dinner at Trinity College	

Wednesday, September 14

	Main Auditorium	Umney Theatre
08:30 – 09:30	Plenary: Thomas Strohmer (UC Davis): You can have it all: Rapid, robust, and rigorous algorithms for bilinear problems in signal processing and communications	
09:40 – 11:00	Special Session on “Multiscale Factorizations and Learning” <i>Chair: Rémi Gribonval</i> Algorithms for structured matrix-vector product of optimal bilinear complexity <i>Ke Ye (University of Chicago) and Lek-Heng Lim (University of Chicago)</i> Multiresolution Matrix Factorization <i>Risi Kondor (University of Chicago)</i> Multi-layer sparse matrices <i>Luc Le Magoarou (INRIA, Rennes, France)</i> On the identifiability and stable recovery of deep/multi-layer structured matrix factorization <i>François Malgouyres (IMT, Université Paul Sabatier) and Landsberg Joseph (Texas A&M University)</i>	Regular Session “Caches and Storage 2” <i>Chair: Young-Han Kim</i> Approximate File Synchronization: Upper Bounds and Interactive Algorithms <i>Amirhossein Reisizadehmobarakeh and Clayton Schoeny (University of California, Los Angeles, USA); Chi-Yo Tsai and Lara Dolecek (UCLA, USA)</i> Pliable Index Coding: Novel Lower bound on the Fraction of Satisfied Clients with a Single Transmission and its Application <i>Tang Liu and Daniela Tuninetti (University of Illinois at Chicago, USA)</i> Distributed Index Coding <i>Parastoo Sadeghi (The Australian National University, Australia); Fatemeh Arbabjolfaei (University of California, San Diego, USA); Young-Han Kim (UCSD, USA)</i> Complete Interference Mitigation Through Receiver-Caching in Wyner's Networks <i>Michele A Wigger (Telecom ParisTech, France); Roy Timo (Technische Universität München, Germany); Shlomo (Shitz) Shamai (The Technion, Israel)</i>
11:00 – 11:30	Coffee Break	

	Main Auditorium	Umney Theatre
11:30 – 13:10	<p>Special Session on “Geometry of Invariants and Information Limits for Radar” <i>Organised by Ali Pezeshki; Chair: Edwin K.P. Chong</i></p> <p>The Geometry of Invariants for Generalized Coherence Tests <i>Stephen D. Howard (Defence Science and Technology Group), Douglas Cochran (Arizona State University), and Songsri Sirianunpiboon (Defence Science and Technology Group)</i></p> <p>Canonical Coordinates in Two-Channel Passive Detection Problems <i>Ignacio Santamaria (University of Cantabria), Yuan Wang (Washington State University), Louis L. Scharf (Colorado State University), and Javier Vía (University of Cantabria)</i></p> <p>On the existence of cardinality-preserving multi-Bernoulli posteriors for multi-target tracking <i>Bill Moran (RMIT), Marc Morelande (RMIT) and Lennart Svensson (Chalmers University of Technology)</i></p> <p>On Calculating the Intersection Information <i>Edwin K. P. Chong (Colorado State University)</i></p> <p>Scaling laws and phase transitions for target detection in MIMO radar <i>Lu Wei (Harvard University), Zhong Zheng (University of Texas at Dallas), Alfred Hero III (University of Michigan), and Vahid Tarokh (Harvard University)</i></p>	<p>Regular Session on “Topics in Physical-Layer Security 3” <i>Chair: Ligong Wang</i></p> <p>A New Multiple Access Wiretap Channel Model <i>Mohamed Nafea (The Pennsylvania State University, USA); Aylin Yener (Pennsylvania State University, USA)</i></p> <p>When is Omniscience a Rate-Optimal Strategy for Achieving Secret Key Capacity? <i>Chung Chan (The Chinese University of Hong Kong, Hong Kong); Manuj Mukherjee and Navin Kashyap (Indian Institute of Science, India); Qiaoqiao Zhou (The Chinese University of Hong Kong, Hong Kong)</i></p> <p>Well-Rounded Lattices for Reliability and Security in Rayleigh Fading SISO Channels <i>Oliver Gnilke, Ha Thanh Nguyen Tran, Alex Karrila and Camilla Hollanti (Aalto University, Finland)</i></p> <p>Optimal Throughput for Covert Communication Over a Classical-Quantum Channel <i>Ligong Wang (ETIS; CNRS, France)</i></p> <p>On Lossy Source Coding with Equivocation Constraints <i>Meryem Benammar (HUAWEI Technologies France, France); Abdellatif Zaidi (Université Paris-Est Marne La Vallée, France)</i></p>
13:10 – 14:10	Lunch Break	

	Main Auditorium	Umney Theatre
14:10 – 15:50	<p>Regular Session on “Topics in Statistics and Machine Learning 3” <i>Chair: Yue Lu</i></p> <p>A Lower Bound on the Entropy Rate for a Large Class of Stationary Processes and its Relation to the Hyperplane Conjecture <i>Meik Dörpinghaus (TU Dresden, Germany)</i></p> <p>RSB Decoupling Property of MAP Estimators <i>Ali Bereyhi (Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU); Institute for Digital Communications (IDC), Germany); Ralf R. Müller (FAU Erlangen-Nürnberg, Germany); Hermann Schulz-Baldes (Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Germany)</i></p> <p>A Universal Coding Scheme for Remote Generation of Continuous Random Variables <i>Cheuk Ting Li and Abbas El Gamal (Stanford University, USA)</i></p> <p>Randomized Kaczmarz for Rank Aggregation from Pairwise Comparisons <i>Vivek Borkar, Nikhil Karamchandani and Sharad Mirani (Indian Institute of Technology Bombay, India)</i></p> <p>Symmetric Metropolis-within-Gibbs Algorithm for Lattice Gaussian Sampling <i>Zheng Wang and Cong Ling (Imperial College London, United Kingdom)</i></p>	<p>Regular Session on “Channel Coding 3” <i>Chair: Jossy Sayir</i></p> <p>A Generalized Erasure Channel in the Sense of Polarization for Binary Erasure Channels <i>Yuta Sakai and Ken-ichi Iwata (University of Fukui, Japan)</i></p> <p>Hamming Codes as Error-Reducing Codes <i>William Rurik (University of Minnesota, USA); Arya Mazumdar (University of Massachusetts Amherst, USA)</i></p> <p>Balanced Reed-Solomon Codes for All Parameters <i>Wael Halbawi (California Institute of Technology, USA); Zihan Liu (The Chinese University of Hong Kong, Hong Kong); Babak Hassibi (California Institute of Technology, USA)</i></p> <p>Low-Complexity Chase Decoding of Algebraic-Geometric Codes Using Koetter's Interpolation <i>Siyuan Wu and Li Chen (Sun Yat-sen University, P.R. China); Martin Johnston (Newcastle University, United Kingdom)</i></p> <p>Channels with state information and mismatched decoding <i>Anelia Somekh-Baruch and Yafit Feldman (Bar-Ilan University, Israel)</i></p>
15:50 – 16:20	Coffee Break	

	Main Auditorium	Umney Theatre
16:20 – 18:20	<p>Reg. Sess. on “Topics in Compression and Compressed Sensing 3” <i>Chair: Wei Dai</i></p> <p>Achieving Super-Resolution in Multi-Rate Sampling Systems via Efficient Semidefinite Programming <i>Maxime Ferreira Da Costa; Wei Dai (Imperial College London)</i></p> <p>Sub-linear Time Compressed Sensing for Support Recovery using Left and Right regular Sparse-Graph Codes <i>Avinash Vem and Krishna Narayanan (Texas A&M University, USA); Nagaraj Thenkarai Janakiraman (Texas A&M University)</i></p> <p>Efficient Compression Algorithm For File Updates Under Random Insertions And Deletions <i>Qiwen Wang (KTH Royal Institute of Technology, Sweden); Muriel Médard (MIT, USA); Mikael Skoglund (KTH Royal Institute of Technology, Sweden)</i></p> <p>The Dispersion of the Mean Excess Distortion <i>Yuval Kochman (The Hebrew University of Jerusalem, Israel); Gregory Wornell (Massachusetts Institute of Technology, USA)</i></p> <p>Application of Compression Codes in Compressed Sensing <i>Farideh Ebrahim Rezagah (NYU (Alumni), USA); Shirin Jalali (Bell Labs, USA); Elza Erkip (New York University, USA); H. Vincent Poor (Princeton University, USA)</i></p> <p>Zero-Delay Joint Source-Channel Coding with a 1-Bit ADC Front End and Receiver Side Information <i>Morteza Varasteh (Imperial College London); Borzoo Rassouli (Imperial College London); Osvaldo Simeone (New Jersey Institute of Technology, USA); Deniz Gündüz (Imperial College London)</i></p>	<p>Regular Session on “Wireless Communications 2” <i>Chair: Albert Guillén i Fàbregas</i></p> <p>On Ergodic Fading Gaussian Interference Channels with Statistical CSIT <i>Pin-Hsun Lin and Eduard Jorswieck (TU Dresden, Germany); Rafael F. Schaefer (Technische Universität Berlin, Germany)</i></p> <p>Algebraic Lattices Achieving the Capacity of the Ergodic Fading Channel <i>Antonio Campello (Télécom Paristech, France); Cong Ling (Imperial College London); Jean-Claude Belfiore (Telecom Paristech; Huawei Technologies, France)</i></p> <p>On the Achievable Degrees of Freedom of the MIMO X-Channel with Delayed CSIT <i>Alexey Buzuverov, Hussein Al-Shatri and Anja Klein (TU Darmstadt, Germany)</i></p> <p>Asymmetric Degrees of Freedom of the Full-Duplex MIMO 3-Way Channel <i>Adel M. Elmahdy (Nile University, Egypt); Amr El-Keyi (Carleton University, Canada); Yahya Mohasseb (The Military Technical College, Cairo, Egypt); Tamer ElBatt (Faculty of Engineering, Cairo University; WINC, Nile University, Egypt); Mohammed Nafie (Cairo University; Nile University, Egypt); Karim G Seddik (American University in Cairo, Egypt)</i></p> <p>Approximate Capacity of the Two-User Gaussian Interference Channel with Noisy Channel-Output Feedback <i>Victor Quintero and Samir M. Perlaza (INRIA, France); Iñaki Esnaola (University of Sheffield, United Kingdom); Jean-Marie Gorce (INSA-Lyon, France)</i></p>