

CONTINENTAL BREAKFAST & REGISTRATION – CONVOCATION ROOM						8:00 – 9:00 AM
AM SESSIONS WA-01 – WA-06						9:00 – 11:30 AM
	<b>WA-01 Room F004</b> <b>Optimal Communications with Discrete Input Signals</b> Organizers: Alex Dysto, Mario Goldenbaum – Princeton University	<b>WA-02 Room F006</b> <b>IoT Inference</b> Organizer: Visa Koivunen – Aalto University, Finland	<b>WA-03 Room F008</b> <b>Adversarial Machine Learning</b> Organizer: Prateek Mittal – Princeton University	<b>WA-04 Room F108</b> <b>Geometry &amp; Information Theory</b> Organizers: Thomas Courtade – Berkeley, Ayfer Ozgur – Stanford University	<b>WA-05 Room F009</b> <b>WimBo -Watermark Imaging Box Project: A Digital Art History Data Acquisition Tool</b> Organizer: Charles “Rick” Johnson – Cornell University & Cornell Tech	<b>WA-06 Room F109</b> <b>Scheduling &amp; Optimization I</b>
9:00 – 9:20 AM	<b>On Inputs Achieving the Cardinality-Constrained Capacity on the Real Gaussian Noise Channel</b> Daniela Tuninetti	<b>On the Estimation and Secrecy Capabilities of Stochastic Encryption for Parameter Estimation in IoT</b> Ananth Narayan Samudrala, Rick S. Blum	<b>Securing the Visual Channel: How My Car Saw the Light and Stopped Learning</b> Richard Chow, Hsin-Mu Tsai	<b>Functional Methods for Information Theoretic Converses</b> Jingbo Liu	<b>WimBo - Watermark Imaging Box Project: A Digital Art History Data Acquisition Tool</b> C. Richard Johnson, Jr.	<b>End-to-end Network Throughput Optimization Through Last-mile Diversity</b> Ning Wu, Kevin Tang
9:20 – 9:40 AM	<b>Capacity Approximation of Continuous Channels by Discrete Inputs</b> Malcome Egan, Samir Perlaza	<b>Attack Detection and Secure Estimation Under False Data Injection Attack in Cyber-Physical Systems</b> Arpan Chattopadhyay, Urbashi Mitra	<b>Enhancing Robustness of Machine Learning Systems via Data Transformations</b> Nitin Bhagoji, Daniel Cullina, Chawin Sitawarin, Prateek Mittal	<b>The Geometry of Entropy Power Inequalities on the Integers</b> Jae Oh Woo, Mokshay Madiman, Liyao Wang	<b>The Computational Analysis of Watermarks: Setting the Stage for the Development of a Watermark Imaging Box (WimBo)</b> Emily Frank, Lydia Aikenhead, Margaret Holben Ellis, Paul Messier	<b>Wireless Scheduling with Deadline and Power Constraints</b> Yiqiu Liu, Xin Liu, Lei Ying, R. Srikant
9:40 – 10:00 AM	<b>Approaching Waterfilling Capacity of Parallel Channels by Higher Order Modulation and Probabilistic Amplitude Shaping</b> Fabian Steiner, Georg Bechere and Patrick Schulte	<b>Communication Efficient Distributed Learning with Feature Partitioned Data</b> Bingwen Zhang, Jun Geng, Weiyu Xu, Lifeng Lai	<b>Provable Learning in the Presence of Adversaries</b> Daniel Cullina, Arjun Bhagoji, Prateek Mittal	<b>Information Inequalities and Optimal Mass Transport</b> Thomas Courtade	<b>Surface Suppression: A Visible-Light Transmission Approach to Watermark Imaging</b> Marc S. Walton, Oliver Coissart, Aggelos K. Katsaggelos, Goutam Raju	<b>Wireless Network Traffic Disaggregation Using Bayesian Nonparametric Techniques</b> Gabriel Ford, Rebecca Cargan, Ali Ahmed, Kevin Rigney, Christopher Berry, Donald Bucci, Moshe Kam
BREAK						10:00 – 10:30 AM
10:30 – 10:50 AM	<b>The MISO Free-Space Optical Channel at Low and Moderate SNR</b> Stefan Moser, Ligong Wang, and Michèle Wigger	<b>Distributed Machine Learning in the Age of Cyber Attacks</b> Zhixiong Yang, Waheed U. Bajwa	<b>Adversarial Machine Learning: the Case of Collaborative Filtering</b> Rasoul Etesami, Negar Kiyavash	<b>Inequalities for Directional Entropies</b> Varun Jog	<b>Use of Infrared Hyperspectral Imaging (960-1680nm) and Low Energy X-Radiography to Visualize Watermarks</b> John Delaney, Murray Loew	
10:50 – 11:10 AM	<b>On Gaussian Mixture Noise Channels with Minimum and Peak Amplitude Constraints</b> Mehul Motani, Zhengwei Ni	<b>Sequential Estimation of Distributed Parameters in Networks</b> Saurabh Sihag, Javad Heydari, Ali Tajer		<b>The Geometry of the Relay Channel</b> Ayfer Ozgur	<b>Art into Data   Engineering WimBo</b> Paul Messier, Emily Frank	
11:10 – 11:30 AM	<b>When Are Discrete Channel Inputs Optimal? - Optimization Techniques and Some New Results</b> Alex Dytso, Mario Goldenbaum, H. Vincent Poor, and Shlomo Shamai	<b>Nonparametric Distributed Detection Using Bootstrapping and Fisher's Method</b> Topi Halme, Visa Koivunen, H. Vincent Poor		<b>Triangulation Codes: A Family of Non-Linear Codes with Graceful Degradation</b> Hajir Roozbehani	<b>The WIRE Project at Cornell: An Interactive Decision Tree Approach for the Rapid Identification of Watermarks in Rembrandt's Etchings</b> Andrew C. Weislogel, Samantha Siegler, So Jeong Lim	
PLENARY TALK: PRAMOD VISWANATH – ROOM F101						11:45 AM – 12:45 PM

LUNCH BREAK – SEE LOCAL SUGGESTIONS					12:45 – 2:30 PM
PM SESSIONS WP-01 – WP-06					2:30 – 5:20 PM
	<b>WP-01 Room F004</b> <b>Alignment Problems in Signal Processing, Statistics and Structural Biology</b> Organizers: Tamir Bendory, Amit Singer – Princeton University	<b>WP-02 Room F006</b> <b>Theory and Bounds for IoT Security</b> Organizers: Yanina Shkel-Princeton University, Rick Blum – Lehigh University	<b>WP-03 Room F008</b> <b>Optimization, Learning, and Inference I</b> Organizer: Yuxin Chen – Princeton University	<b>WP-04 Room F108</b> <b>Computational Neuroscience</b> Organizer: Siamak K. Sorooshiyari – Johnson & Johnson	<b>WP-06 Room F109</b> <b>Scheduling &amp; Optimization II</b>
2:30 – 2:50 PM	<b>Image and Video Deblurring With and Without Frame Alignment</b> Guillermo Sapiro	<b>Cache-Aided Combination Networks with Secrecy Guarantees</b> Ahmed A. Zewail, Aylin Yener	<b>Estimation of Inhomogeneous Point Processes: Theory and Applications</b> Mark Davenport	<b>Learning Scene Gist with Convolutional Neural Networks to Improve Object Recognition</b> Gabriel Kreiman, Eric Wu, Kevin Wu	<b>An Integer Linear Program for Mixed-Weight Open Locating-Dominating Sets</b> Robin Givens, Rex Kincaid, Weizhen Mao, Gexin Yu
2:50 – 3:10 PM	<b>Data-Driven Visual Correspondences in the Presence of Symmetry</b> Qixing Haung	<b>Private Information Retrieval with Partially Known Private Side Information</b> Y.P. Wei, K. Banawan, Senur Ulukus	<b>On Phase Transitions for Spiked Random Matrix and Tensor Models</b> Afonso Bandeira	<b>Learning to Predict Action Potentials End-to-End from Calcium Imaging Data</b> Drew Linsley, Jeremy Linsley, Tarun Sharma, Nathan Meyers, Thomas Serre	<b>Generic Network Cost Minimization: A Decentralized Newton's Method</b> Xuanyu Cao, K. J. Ray Liu
3:10 – 3:30 PM	<b>The Structure of Viruses from Experimental Data</b> Dilano Sladin	<b>Finite Blocklength Bounds for the Arbitrarily-Varying Channel</b> Oliver Kosut, Joerg Kliewer	<b>Distributed First-Order Non-Convex Optimization: Lower Complexity Bounds and an Optimal Proximal Primal-Dual Algorithm</b> Mingyi Hong, Haoran Sun	<b>Universality in Olfactory Coding of Odor Identity and Intensity</b> Guangwei Si, Jessleen K. Kanwal, Yu Hu, Christopher J. Tabone, Jacob Baron, Matthew Berck, Gaetan Vignoud, Aravinthan D.T. Samuel	<b>Implementation of Rate-Adaptive Integer Forcing Compression in Distributed Wireless Relay Networking</b> Jing Guo, Ahmed Ibrahim, Ameya Agaskar, David Love, Navid Yazdani
BREAK					3:30 – 4:00 PM
4:00– 4:20 PM	<b>Statistical Estimation Under Group Actions: The Sample Complexity of Multi-Reference Alignment</b> Afonso Bandeira	<b>Generative Adversarial Privacy: A Data-Driven Approach to Guaranteeing Privacy and Utility</b> Chong Huang, Lalitha Sankar, Ram Rajagopal, Peter Kairouz, Xiao Chen	<b>Learning Deep Models: Critical Points and Local Openness</b> Meisam Razaviyayn	<b>Toward Highly Interpretable Convolutional Neural Networks: Stability and Compression</b> Reza Abbasi-Asl, Bin Yu	<b>Innovation, Cheating, and Whistleblowing – A Game Theoretic Perspective</b> Soheil Eshghi, Leandros Tassioulas
4:20 – 4:40 PM	<b>Orbit Recovery from Invariants</b> Jon Weed	<b>Learning Maximal Leakage</b> Aaron Wagner, Ibrahim Issa	<b>Statistical Inference for Model Parameters with Stochastic Gradient Descent</b> Xi Chen	<b>Closed-loop Stimulation to Lateral Temporal Cortex Rescues Functional Networks and Improves Memory</b> Michael Kahana, Youssef Ezzyat	
4:40 – 5:00 PM	<b>Multireference Alignment without Alignment</b> Nicolas Boumal	<b>Secure Lossless Compression</b> Yanina Shkel, Rick Blum, H. Vincent Poor	<b>Learning ReLUs via Gradient Descent</b> Mahdi Soltanolkotabi	<b>Optimal Information Transmission by Overlapping Retinal Cell Mosaics</b> Yilun Zhang, David Kastner, Stephen Baccus, Tatyana Sharpee	
5:00 – 5:20 PM			<b>HiGrad: Statistical Inference for Stochastic Approximation and Online Learning</b> Weijie Su	<b>A Communication-Theoretic Formulation of a Continuous Linear-Nonlinear Model of Retinal Ganglion Cells</b> Siamak K. Sorooshiyari, Stephen A. Baccus	
RECEPTION DINNER CHARTER CLUB – 79 PROSPECT AVENUE					5:30 PM – 7:30 PM
Name tag required for admittance					

Thursday, March 22

AM SESSIONS

CONTINENTAL BREAKFAST – CONVOCATION ROOM						8:00 – 9:00 AM
AM SESSIONS TA-01 – TA-06						9:00 – 11:30 AM
TA-01 Room F004 Algorithmic Reinforcement Learning Organizer: Mengdi Wang – Princeton University	TA-02 Room F006 Learning and Optimization in Energy Systems Organizer: Yue Zhao – Stony Brook	TA-3 Room F008 Optimization, Learning, and Inference II Organizer: Yuxin Chen – Princeton University	TA-04 Room F108 Control & Scheduling	TA-05 Room F009 Communications and Networks I	TA-06 Room F109 Statistical Estimation & Inference I	
9:00 – 9:20 AM	<b>Sample-Efficient Exploration in Reinforcement Learning with Function Approximation</b> Nan Jiang	<b>Unlocking Untapped Grid Assets by Learning Techniques: A Case Study on Residential Demand Response</b> Qinran Hu, Yingying Li, Alison Su, Jun Shimada, Na Li	<b>Hidden Integrality &amp; Exponential Rates of Convex Relaxations for Learning Discrete Structures</b> Yudong Chen	<b>An ADMM Approach to Dynamic Sharing Problems</b> Xuanyu Cao, K. J. Ray Liu	<b>A Change-Detection Approach to Mobile Node Localization in Bounded Domains</b> Alessio Fascista, Giovanni Ciccarese, Angelo Coluccia, Giuseppe Ricci	<b>An Edge Exclusion Test for Graphical Modeling of Multivariate Time Series</b> Jitendra Tugnait
9:20 – 9:40 AM	<b>Optimistic Posterior Sampling for Reinforcement Learning: Worst-Case Regret Bounds</b> Shipra Agrawal	<b>Localization of Forced Oscillations in the Power Grid Under Resonance Conditions</b> Tong Huang, Nikolaos Freris, P.R. Kumar, Le Xie	<b>Nearly Optimal Robust Subspace Tracking &amp; Dynamic Robust PCA</b> Praneeth Narayanamurthy, Namrata Vaswani	<b>Exploiting Policy Structure for Solving MDPs with Large State Space</b> Libin Liu, Arpan Chattopadhyay, Urbashi Mitra	<b>Graph Algorithms for Preventing Cascading Failures in Networks</b> Pei Duo YU, Chee Wei Tan, Hung Lin Fu	<b>Kronecker Compressed Sensing for Massive MIMO</b> John Franklin, Brinton Cooper III
9:40 – 10:00 AM	<b>SBEED: Stable and Efficient Reinforcement Learning with Function Approximation</b> Lihong Li	<b>Deep Generative Learning for Renewables Scenario Generation</b> Yize Chen, Pan Li, Baosen Zhang	<b>Denoising with Spherically Uniform Neural Layers</b> Dustin Mixon, Soledad Jillar	<b>Optimal Electric Vehicle Charging Scheduling with Time-Varying Profits</b> Boyu Wang, Jing Yang	<b>On the Interplay Between Edge Caching and HARQ in Fog-RAN</b> Igor Stanojev, Osvaldo Simeone	<b>Linearized Binary Regression</b> Andrew Lan, Mung Chiang, Christoph Studer
BREAK						10:00 – 10:30 AM
10:30 – 10:50 AM	<b>Primal-Dual Pi Learning with State and Action Features</b> Mengdi Wang	<b>Voltage Analytics for Power Distribution Network Topology Verification</b> Guido Cavraro, Vassilis Kekatos, Sriharsha Veeramachaneni	<b>Underdetermined Tensor Decomposition via Solving Quadratic Equations</b> Piya Pal, Ali Koochakzadeh	<b>Relative Degree of Interconnected SISO Nonlinear Control Systems</b> W. Steven Gray, Subbarao Venkatesh Guggilam	<b>Predictive Airborne Target Tracking Using All-Terrain Fusion Based Mobile Surveillance System</b> David Kondru, Mehmet Celenk	<b>Online Estimation for Finding a Near-Maximum Value in a Large List of Numerical Data</b> Jonathan Stokes, Steven Weber
10:50 – 11:10 AM		<b>Solar Energy Sharing in Net Metered Community Microgrids: Can the Social Goals be Achieved</b> Yue Zhao	<b>Nonconvex Sparse Blind Deconvolution: Geometry and Efficient Methods</b> John Wright		<b>Stochastic Optimization and Control Framework for 5G Network Slicing with Effective Isolation</b> Ali Taleb Zadeh Kasgari, Walid Saad	<b>PhaseLin: Linear Phase Retrieval</b> Ramina Ghods, Andrew Lan, Tom Goldstein, Christoph Studer
11:10 – 11:30 AM			<b>Achieving Statistical and Computational Efficiency for Quadratic Inverse Problems via Gradient Descent</b> Yuejie Chi		<b>UWB/IMU Intergration Approach with NLOS Identification and Mitigation</b> Zhuoqi Zeng, Steven Liu, Lei Wang	
PLENARY TALK: BIN YU – ROOM F101						11:45 AM – 12:45 PM

Thursday, March 22

PM SESSIONS

LUNCH BREAK – SEE LOCAL SUGGESTIONS						12:45 – 2:30 PM
PM SESSIONS TP-01 – TP-06						2:30 – 5:00 PM
<b>TP-01 Room F004</b> <b>Information in Causal Estimation, Learning, and Control</b> Organizer: Tara Javidi – UC San Diego	<b>TP-02 Room F006</b> <b>Human System Interaction</b> Organizers: Cedric Langbort, V. Sriram Siddhardh Nadendla – UIUC, Vaibhav Srivastava – Michigan State, Naomi Leoard – Princeton University	<b>TP-03 Room F008</b> <b>Optimization, Learning, and Inference III</b> Organizer: Yuxin Chen – Princeton University	<b>TP-04 Room F108</b> <b>Low Latency Communication</b> Organizer: Albert Guillén i Fàbregas – Universitat Pompeu Fabra	<b>TP-05 ROOM F009</b> <b>Communication and Networks II</b>	<b>TP-06 ROOM F109</b> <b>Statistical Estimation &amp; Inference II</b>	
2:30 – 2:50 PM	<b>Causal Rate-Distortion Function: Operational Meaning</b> Victoria Kostina, Babak Hassibi	<b>Building a Cooperator</b> Alex Peysakhovich	<b>Recovering a Hidden Hamiltonian Cycle via Linear Programming with Applications to DNA Sequencing</b> Jiaming Xu	<b>Normal Approximations for Fading Channels</b> Alejandro Lancho, Tobias Koch, Giuseppe Durisi	<b>Blind Source Separation in the Physical Layer</b> Alex Tait, Thomas Ferreira de Lima, Yechi Ma, Matthew Chang, Mitchell NahmiasBhavin Shastri, Prateek Mittal, Paul Prucnal	<b>A Random-Signal Approach to Robust Radar Detection</b> Angelo Coluccia, Giuseppe Ricci
2:50 – 3:10 PM	<b>Worst-Case Guarantees for Remote Estimation of a Non-Stochastic Source</b> Mukul Gagrani, Yi Ouyang, Mohammad Rasouli, Ashutosh Nayyar	<b>Modeling Psychophysical Interactions in a Smart World</b> Arnold Glass, Narayan Mandayam, H. Vincent Poor, Walid Saad	<b>Low-Rank Approximation from via Partial Matrix Sampling: Assumption-Free Local Minimum Analysis and Applications in Memory-Efficient Kernel PCA</b> Ji Chen, Xiaodong Li	<b>Pilot-Assisted Short-Packet Transmission over Multiantenna Fading Channels: A 5G Case Study</b> Guido Carlo Ferrante, Johan Östman, Giuseppe Durisi, Kittipong Kittichokechai	<b>Event-Triggered Stabilization of Disturbed Linear Systems over Digital Channels</b> Mohammad Javad Khojasteh, Mojtaba Hedayatpour, Jorge Cortes, Massimo Franceschetti	<b>An Efficient Nonnegative Matrix Factorization Model for Finding Cancer Associated Genes by Integrating Data from Genome, Transcriptome and Interactome</b> Jianing Xi, Ao Li, Minghui Wang
3:10 – 3:30 PM	<b>On the Separation of Estimation and Control in Hierarchical Control Systems with Communication Cost</b> Mohammad Afshari, Jhelum Chakravorty, Aditya Mahajan	<b>Surprising Sequences for Communication and Conversation</b> Ting-Yi Wu, Xiou Ge, Lav Varshney		<b>Saddlepoint Approximations of Lower and Upper Bounds to the Error Probability in Channel Coding</b> Josep Font-Segura, Gonzalo Vazquez-Vilar, Alfonso Martinez, Albert Guillen i Fabregas, Alejandro Lancho	<b>Joint Heterogeneous Statistical QoS/QoE Provisionings for Edge-Computing Based WiFi Offloading Over 5G Mobile Wireless Networks</b> Xi Zhang, Jingqing Wang	<b>Clustering Under Composite Generative Models</b> Tiexing Wang, Donald Bucci, Yingbin Liang, Biao Chen, Pramod Varshney
BREAK						3:30 – 4:00 PM
4:00– 4:20 PM	<b>Optimal Remote Estimation of Discrete Random Variables Over the Collision Channel</b> Marcos M. Vasconcelos, Nuno C. Martins	<b>Fragility of the Commons: The Game-Theoretic Impacts of Human Decision-Making on Robustness of Shared Systems</b> Shreyas Sundaram, Ashish Ranjan Hota	<b>Nonconvex Low-Rank Matrix Recovery with Arbitrary Outliers via Median-Truncated Gradient Descent</b> Yuejie Chi, Yuanxin Li, Huishuai Zhang, Yingbin Liang	<b>Applications Of An Exact Formula For the Largest Minimum Distance Of Block Codes</b> Ling-Hua Chang, Carol Wang, Po-Ning Chen, Yunghsiung Han, Vincent Tan	<b>Some (Non-)Universal Features of Web Robot Traffic</b> Mahdieh Zabihimayvan, Derek Doran	<b>Parallel Decentralized Detection with Dependent Randomization</b> Weiqiang Dong, Moshe Kam
4:20 – 4:40 PM	<b>Reliable Streaming of a Source Over a Memoryless Channel with Feedback</b> SungEn Chiu, Anusha Lalitha, Tara Javidi	<b>Social Bayesian Decision Making</b> Dhaval Adjodha, Peter Krafft, Alex Pentland, Yan Leng, Shi Kai Chong, Zheyuan Shi, Alejandro Noriega,	<b>Matrix Completion with Deterministic Sampling Pattern – A Geometric Perspective</b> Yao Xie, Alexander Shapiro, Rui Zhang	<b>The <math>r</math>-wise Hamming Distance and its Operational Interpretation for Block Codes</b> Hsuan-Yin Lin, Stefan M. Moser, Po-Ning Chen	<b>The Probability Density Function of SINR Loss of the Dominant Mode Rejection Beamformer</b> Enlong Hu, Hongya. Ge	
4:40 – 5:00 PM		<b>On Estimating Multi-Attribute Choice Preferences using Private Signals and Matrix Factorization</b> Venkata Sriram Siddhardh Nadendla, Cédric Langbort	<b>Igorithmic Regularization in Over-Parameterized Matrix Recovery</b> Yuanzhi Li, Tengyu Ma, Hongyang Zhang	<b>The Error Exponent of Random Gilbert-Varshamov Codes</b> Anelia Somekh-Baruch, Jonathan Scarlett, Albert Guillén i Fàbregas	<b>Variable-Rate Ultra-Reliable and Low-Latency Communication for Industrial Automation</b> Rebal Jurdi, Saeed Reza Khosravirad, Harish Viswanathan	
RECEPTION DINNER CHARTER CLUB – 79 PROSPECT AVENUE						5:30 PM – 7:30 PM
Name tag required for admittance						

CONTINENTAL BREAKFAST – CONVOCATION ROOM						8:00 – 9:00 AM
AM SESSIONS FA-01 – FA-06						9:00 – 11:30 AM
FA-01 Room F004 Structured Codes in Network Information Theory Organizer: Chandra Nair – The Chinese University of Hong Kong	FA-02 Room F006 Property Estimation & Testing 1 Organizers: Jiantao Jiao, Tsachy Weissman – Stanford	FA-03 Room F008 Optimization, Learning, and Inference IV Organizer: Yuxin Chen – Princeton University	FA-04 Room F108 Privacy, Security & Anonymization	FA-05 Room F009 Communication and Networks III	FA-06 Room F109 Machine Learning I	
9:00 – 9:20 AM	<b>Towards an Algebraic Network Information Theory: I. A Joint Typicality Framework</b> Michael Gastpar	<b>Measuring Entropy: Classical and Quantum</b> Jayadev Acharya	<b>On the Landscapes of High-Dimensional Random Integer Least-Squares Problems</b> Yue Lu, Cheng Shi	<b>Local Differential Privacy for Physical Sensor Data and Sparse Recovery</b> Anna Gilbert, Audra McMillan	<b>A Tunable Base Station Cooperation Scheme for Poisson Cellular Networks</b> Ke Feng, Martin Haenggi	<b>A Deep Reinforcement Learning-Based Framework for Content Caching</b> Chen Zhong, M. Cenk Gursoy, Senem Velipasalar
9:20 – 9:40 AM	<b>Towards an Algebraic Network Information Theory: II. Simultaneous Decoding</b> Bobak Nazer	<b>Discovering Potential Correlations via Hypercontractivity</b> Weihao Gao	<b>Optimization-based AMP for Phase Retrieval: The Impact of Initialization and <math>\ell_2</math>-regularization</b> Arian Maleki	<b>Privacy Against Matching under Anonymization and Obfuscation in the Gaussian Case</b> Ke Li, Hossein Pishro-Nik, Dennis Goeckel	<b>Phase-Type Bounds on Network Performance</b> Massieh Boroujeny, Yariv Ephraim, Brian Mark	<b>Understanding Mean-Field Effects of Large-Population User Data Obfuscation in Machine Learning</b> Alex Duniak, Quanyan Zhu
9:40 – 10:00 AM	<b>Structure Versus Channel Uncertainty: Robust GDoF Outer Bounds for Wireless Interference Networks Based on Aligned Image Sets</b> Syed A. Jafar	<b>Optimal Distribution Learning Up To Permutations</b> Jiantao Jiao	<b>Convexity of Mutual Information Along the Heat Flow</b> Andre Wibisono, Varun Jog	<b>Security Investment under Cognitive Constraints: A Gestalt Nash Equilibrium Approach</b> Juntao Chen, Quanyan Zhu	<b>Stability of Fair Trade-Off Solution Between Radar and Communication Objectives on Hostile Interference</b> Andrey Garnaeov, Wade Trappe, Athina Petropulu	<b>Consensus-Based Transfer Linear Support Vector Machines for Decentralized Multi-Task Multi-Agent Learning</b> Rui Zhang, Quanyan Zhu
BREAK						10:00 – 10:30 AM
10:30 – 10:50 AM	<b>Structured Coding Approach to Multiple-Access Channel with Feedback</b> S. Sandeep Pradhan	<b>Hypothesis Testing with Alternative Distances</b> Gautam Kamath	<b>Random Projections for Faster Non-Convex Optimization</b> Mert Pilanci	<b>Statistical Matching in the Presence of Anonymization and Obfuscation: Non-Asymptotic Results in the Discrete Case</b> Nazanin Takbiri, Ke Li, Hossein Pishro-Nik, Dennis Goeckel	<b>Training-Based Joint Channel and Antenna Impedance Estimation</b> Shaohan Wu, Brian L Hughes	<b>Ranking Causal Influence of Financial Markets via Directed Information Graphs</b> Theo Diamandis, Yonathan Murin, Andrea Goldsmith
10:50 – 11:10 AM	<b>The Break-down of the Optimality of Superposition Coding for Three or More Receivers</b> Chandra Nair	<b>Testing Degree Corrections in Stochastic Block Models</b> Rajarshi Mukherjee	<b>A Flexible Framework for Hypothesis Testing High-Dimensions</b> Adel Javanmard		<b>On Diffusive Molecular Communication with Mobile Nanomachines</b> Neeraj Varshney, Aditya K Jagannathan, Pramod Varshney	<b>SNN-Cache: A Practical Machine Learning-Based Caching System Utilizing the Inter-Relationships of Requests</b> Youngbin Im, Prasanth Prahladan, Tae Hwan Kim, Yong-Geun Hong, Sangtae Ha
11:10 – 11:30 AM						
PLENARY TALK: ALEXANDROS DIMAKIS – ROOM F101						11:45 AM – 12:45 PM

LUNCH BREAK – SEE LOCAL SUGGESTIONS						12:45 – 2:30 PM
PM SESSIONS FP-01 – FP-06						2:30 – 5:00 PM
FP-01 Room F004 Sequential Methods for Signal Processing and Control Organizers: George Moustakides – Rutgers University, Venu Veeravalli, University of Illinois – Urbana-Champaign	FP-02 Room F006 Property Estimation & Testing II Organizers: Jiantao Jiao, Tsachy Weissman – Stanford University	FP-03 Room F008 Statistical Learning Organizers: Andrea Montanari – Stanford University, Emmanuel Abbe – Princeton University	FP-04 ROOM F108 Applications in Biology	FP-05 Room F009 Information & Coding Theory	FP-06 Room F109 Machine Learning II	
2:30 – 2:50 PM	<b>Scalable Robust Monitoring of Large-Scale Data Streams</b> Yajun Mei	<b>A Unified Maximum Likelihood Approach for Optimal Distribution Property Estimation</b> Ananda Theertha Suresh	<b>On Computational Hardness with Graph Neural Networks</b> Joan Bruna Estrach	<b>Head Movements are Correlated with Other Measures of Visual Attention at Smaller Spatial Scales</b> Brian Hu, Ismael Johnson-Bey, Mansi Sharma, Ernst Niebur	<b>Coded Status Updates in an Energy Harvesting Erasure Channel</b> Abdulrahman Baknina, Sennur Ulukus	<b>A Network-Driven Approach to Modeling the Spread of Ebola-Type Epidemics</b> Neil Slighton, Jose Rico, Emily Kalfelz, Ji Qi, Christopher G. Brinton
2:50 – 3:10 PM	<b>Controlled Information Fusion with Social Sensors</b> Vikram Krishnamurthy	<b>Estimating Learnability: Approximating Signal and Noise in the Sublinear Data Regime</b> Gregory Valiant	<b>How Well Can Generative Adversarial Networks (GANs) Learn Densities: A Nonparametric View</b> Tengyuan Liang	<b>Network Analysis of Virus-Innate Immune Interaction Within a Host</b> Yufan Huang, Michelle Dai, Zhihao Zhang, Ruian Ke	<b>Locally Optimal, Delay-Tolerant Predictive Source Coding</b> Zhen Xiang, David J. Miller	<b>A Network-Driven Methodology for Sports Ranking and Prediction</b> Kavirath Jain, Vincent Xia, Akshay Krishna, Christopher G. Brinton
3:10 – 3:30 PM	<b>Low Rank Change Detection via Subspace Tracking</b> Yao Xie	<b>The Geometry of Hypothesis Testing Over Convex Cones</b> Yuting Wei	<b>Tensor Decomposition: Speeding Up Sum-of-Squares Algorithms</b> Tselil Schramm	<b>Lossy Compression of Decimated Gaussian Random Walks</b> Alon Kipnis, Andrea Goldsmith, Georgia Murray	<b>Automatic Diagnosis of Melanoma from Dermoscopic Image Using Real-Time Object Detection</b> Shudipto Sekhar Roy, Akkas Uddin Haque, Jeremiah Neubert	
BREAK						3:30 – 4:00 PM
4:00 – 4:20 PM	<b>Asymptotic Analysis of Algorithms for Quickest Detection of Dynamic Events</b> Shaofeng Zou, Venu Veeravalli	<b>On the Connection Between Learning Two-Layers Neural Networks and Tensor Decomposition</b> Marco Mondelli		<b>On the Capacity of Gaussian “Dirty” Z-Interference Channel with Common State</b> Shahab Ghasemi-Goojani, Panagiotis Papadimitratos	<b>Course Recommendation as Graphical Analysis</b> James Jared, Connor Bridges, Joshua Weissmann, Astrid Montanez-Garay, Jonathan Spencer, Christopher G. Brinton	
4:20 – 4:40 PM	<b>Sequential Change Detection in Continuous-time Processes</b> Sveinn Olafsson			<b>Optimal Error Correcting Index Codes for Two Classes of Index Coding Problems</b> Mahesh Babu Vaddi, B. Sundar Rajan	<b>From MRFs To CNNs: A Novel Image Restoration Method</b> Xinjie Lan, Kenneth Barner	
4:40 – 5:00 PM					<b>Predictive Learning Analytics for Video-Watching Behavior in MOOCs</b> Madhumitha Shridharan, Ashley Willingham, Jonathan Spencer, Tsung-Yen Yang, Christopher G. Brinton	
THANK YOU FOR YOUR PARTICIPATION!						