

Monday

8:30-9	Registration	
9-9:30	Welcome, Overview and Opening remarks by Deans Brian Ross and Martin Wong	
9:30-10:30	Ruth Williams UC San Diego <i>Resource Sharing in Stochastic Networks</i>	
10:30-11:00	Coffee break	
	<i>Session Chair: R. Srikant</i>	<i>Session Chair: Richard Sowers</i>
11:00-11:45	Adam Wierman CalTech <i>The Empirical Implications of Complexity for Economics</i>	Shmuel Weinberger UChicago <i>Homology theories on graphs and some aspects of nonlinear network aggregation</i>
11:45-12:30	Alex Olshevsky Illinois <i>Distributed Learning and the Combinatorics of Noisy Linear Systems</i>	Vin de Silva Pomona <i>Reeb graphs, levelset persistence, and category theory</i>
12:30-2:00	Lunch	
	<i>Session Chair: Lav Varshney</i>	<i>Session Chair: Anil Hirani</i>
2:00-2:45	Venkatesh Saligrama Boston U <i>Sub-Graph Detection</i>	Howie Choset CMU <i>Locomotion for Whole Body Locomotors</i>
3:00-3:45	Venu Veeravalli Illinois <i>Universal Outlier Sequence Detection</i>	Lek-Heng Lim UChicago <i>Subspace Distances</i>
4:00-4:45	David Goldberg Georgia Tech <i>Higher order Markov Random Fields for Independent Sets</i>	Jeff Erickson Illinois <i>Hex-meshing things with topology</i>

Tuesday

9:00-10:00	Frank Sottile Texas A&M <i>Toric degenerations of Bezier Patches</i>	
10:00-10:30	Coffee break	
	<i>Session Chair: Hal Schenck</i>	<i>Session Chair: Negar Kiyavash</i>
10:30-11:15	Jonathan Hauenstein NCSU <i>Applications of Numerical Real Algebraic Geometry</i>	Carolyn Beck Illinois <i>Aggregation and Comparison of Graphs and Markov Chains</i>
11:15-12:00	Tim Bretl Illinois <i>A few interesting things about the Kirchhoff elastic rod</i>	Tauhid Zaman MIT <i>The Dynamics of Retweeting on Twitter</i>
12:00-2:00	Lunch	
	<i>Session Chair: Prashant Mehta</i>	<i>Session Chair: Venu Veeravalli</i>
2:00-2:45	Mireille Boutin Purdue <i>High-dimensional Data Clustering using Local Projections</i>	Brighten Godfrey Illinois <i>Networking at the Speed of Light</i>
3:00-3:45	Wendy Cho Illinois <i>An Extreme-Scale Computational Approach to Redistricting Optimization Complex Energy Systems</i>	Misha Chertkov Los Alamos National Lab <i>Complex Energy Systems</i>
4:00-4:45	Naira Hovakimyan Illinois <i>Time-Critical Cooperative Path-Following Control Multiple UAVs</i>	Sewoong Oh Illinois <i>Learning Mixtures of Discrete Product Distributions</i>

IMSE Symposium February 24-25, 2014

Hot Topics at the Interface of Mathematics and Engineering

