The 6ᵗʰ Midwest Workshop on Control and Game Theory

University of Michigan, Ann Arbor, April 22-23, 2017

Draft Agenda

	Saturday April 22, 2017
7:45am-8:30am	**Registration and Breakfast**
8:15am-8:30am	**Welcoming Remarks** Vijay Subramanian, Workshop Co-Chair
	Plenary on Network Security (*Chair: Dimitra Panagou*)
8:30am-9:15am	**Joao Hespanha** (University of California, Santa Barbara) "Randomized Methods in Game Theory with Applications to Network Security"
	Regular Session on Pursuit Evasion and Target Tracking Games (*Chair: Necmiye Ozay*)
9:15am-9:45am	**Dusan Stipanovic** (University of Illinois, Urbana Champaign) "Design of Player's Strategies in Pursuit-Evasion Games based on Approximations of Minimum and Maximum Functions"
9:45am-10:15am	**Sourabh Bhattacharya** (Iowa State University) "Vision-based Target Tracking Games: New Horizons and Future Challenges"
	Coffee Break
	Regular Session on Networked Control Systems (*Chair: Kira Barton*)
10:30am-11:00am	**Anouck Girard** (University of Michigan) "Development of a Game Theoretic Traffic Simulation Environment for Autonomous Vehicle Testing"
11:00am-11:30am	**Shreyas Sundaram** (Purdue University) "Fragility of the Commons: The Game-Theoretic Impacts of Human Decision-Making on Robustness of Shared Systems"
11:30am-12:00pm	**Vijay Gupta** (University of Notre Dame) "Persistence and Stability of Traffic Flow in Large Scale Transportation Networks"

	Working Lunch
12:20pm-1:50pm	Student/Postdoc Poster Session
Regular Session on Mechanism Design (*Chair: David Miller and Grant Schoenebeck*)	
2:00pm-2:30pm	**Tilman Borgers** (University of Michigan) "Simple Mechanisms"
2:30pm-3:00pm	**Marzena Rostek** (University of Wisconsin-Madison) "Privacy-Preserving Market Design"
3:00pm-3:30pm	**David Rahman** (University of Minnesota) "The Dilemma of the Cypress and the Oak Tree"
3:30pm-4:00pm	**Shuchi Chawla** (University of Wisconsin-Madison) "Avoiding Cascading Failures for Time-of-Use Pricing"
	Coffee Break
Regular Session on Robust and Optimal Control (*Chair: Necmiye Ozay*)	
4:15pm-4:45pm	**Laurent Lessard** (University of Wisconsin-Madison) "Robust Control for the Analysis and Design of Large-Scale Optimization Algorithms"
4:45pm-5:15pm	**Andy Lamperski** (University of Minnesota) "Analysis and Control of Nonlinear Stochastic Systems via Linear Optimal Control with Semidefinite Constraints"
5:15pm-5:45pm	**Ness Shroff** (Ohio State University) "Latency-Optimal Coding Control and Scheduling for Clouds and Wireless Networks"
6:00pm	**Dinner at GGB Galleria (see map)**

Sunday April 23, 2017	
8:00am-8:30am	**Breakfast**
Regular Session on Sequential and Distributed Optimization (*Chair: Jake Abernethy*)	
8:30am-9:00am	**Demos Teneketzis** (University of Michigan, Ann Arbor) "A Common Information Approach to Stochastic Dynamic Games with Asymmetric Information"
9:00am-9:30am	**Ermin Wei** (Northwestern University) "Superlinearly Convergent Asynchronous Distributed Network Newton Method"
9:30am-10:00am	**Subhonmesh Bose** (University of Illinois, Urbana Champaign) "Tie-line Scheduling in Electric Power Systems under Uncertainty: A Multi-Parametric Linear Programming Approach"
Coffee Break	
Plenary on Game Theory (*Chair: David Miller*)	
10:15am-11:00am	**Ilya Segal** (Stanford University) "U.S. Incentive Auction for Repurposing of Electromagnetic Spectrum: A Case Study in Algorithmic Market Design"
Working Lunch	
11:15am-12:15pm	Student/Postdoc Poster Session
Regular Session on Economics and Game Theory (*Chair: Mingyan Liu*)	
12:30p-1:00pm	**Randy Berry** (Northwestern University) "The Sharing Economics of Wireless Spectrum"
1:00pm-1:30pm	**Vaibhav Srivastava** (Michigan State University) "The Stochastic Multi-Armed Bandit Problem: In Neuroscience, Ecology, and Engineering"
1:30pm-2:00pm	**Tamer Basar** (University of Illinois, Urbana Champaign) "Risk-Sensitive and Robust Mean Field Games"
2:00pm	**Closing Remarks** Vijay Subramanian, Workshop Co-Chair