

# GameSec 2016



SSID: nyuguest GuestID: guest123 Password: krinagic

All Sessions in 5 MetroTech Room LC400

DAY 1 - WED NOV 2		
Time	Session	Activity
8:30-9:00	X	Registration and Breakfast
9:00-9:15	X	Opening Remarks (Chair, TPC Chair)
9:15-10:10	X	<b>Plenary Talk 1: The Future of Game Theory in Security</b> George Cybenko, Dorothy & Walter Gramm Prof. of Engineering at Dartmouth
10:10-10:40	X	Break
<b>Session 1: Network Security - Chair: Prof. Stefan Rass</b>		
10:40-11:05	1.A	<b>Deception-based Game Theoretical Approach to Mitigate DoS Attacks</b> Hayreddin Ceker, Jun Zhuang, Shambhu Upadhyaya, La Quang Duy and Soong Boon Hee
11:05-11:30	1.B	<b>On the Mitigation of Interference Imposed by Intruders in Passive RFID Networks</b> Eirini Eleni Tsiropoulou, John Baras, Symeon Papavassiliou and Gang Qu
11:30-11:55	1.C	<b>Resilience of Routing in Paralel Link Networks</b> Eitan Altman, Aniruddha Singhal, Corinne Touati and Jie Li
11:55-1:20	X	Lunch (Room LC400)
<b>Session 2: Decision Making for Privacy - Chair: Prof. Tamer Basar</b>		
1:20-1:45	2.A	<b>Scalar Quadratic-Gaussian Soft Watermarking Games</b> M. Kivanc Mihcak, Emrah Akyol, Tamer Basar and Cedric Langbort
1:45-2:10	2.B	<b>On the adoption of privacy-enhancing technologies</b> Tristan Caulfield, Christos Ioannidis and David Pym
2:10-2:35	2.C	<b>FlipLeakage: A Game-Theoretic Approach to Protect Against Stealthy Attackers in the Presence of Information Leakage</b> Sadegh Farhang and Jens Grossklags
2:35-3:00	2.D	<b>Strategies for voter-initiated election audits</b> Chris Culnane and Vanessa Teague
3:00-3:30	X	Break
<b>Session 3: Security Games - Chair: Prof. Jun Zhuang</b>		
3:30-3:55	3.A	<b>A game-theoretic approach to respond to attacker lateral movement</b> Mohammad A. Nouredine, Ahmed Fawaz, William H. Sanders and Tamer Basar
3:55-4:20	3.B	<b>Combining Graph Contraction and Strategy Generation for Green Security Games</b> Anjon Basak, Fei Fang, Thanh Nguyen and Christopher Kiekintveld
4:20-4:45	3.C	<b>Divide to Defend: Collusive Security Games</b> Shahzad Gholami, Bryan Wilder, Matthew Brown, Dana Thomas, Nicole Sintov and Milind Tambe
4:45-5:10	3.D	<b>GADAPT: A Sequential Game-Theoretic Framework for Designing Defense-in-Depth Strategies against Advanced Persistent Threats</b> Stefan Rass and Quanyan Zhu

DAY 2 - THU NOV 3		
Time	Session	Activity
8:30-9:00	X	Registration and Breakfast
9:00-10:00	X	<b>Plenary Talk 2: Game Theory Models of Cybercrime and Cybersecurity Investments Under Network Vulnerability</b> Anna Nagurney, John F. Smith Memorial Prof. at U. of Massachusetts Amherst
10:00-10:30	X	Break
<b>Session 4: Incentives and Cybersecurity Mechanisms - Chair: Prof. Jean Leneutre</b>		
10:30-10:55	4.A	<b>Becoming Cybercriminals: Incentives in Networks with Interdependent Security</b> Aron Laszka and Galina Schwartz
10:55-11:20	4.B	<b>A logic for the compliance budge</b> Gabrielle Anderson, Guy McCusker and David Pym
11:20-11:45	4.C	<b>Optimal Contract Design under Asymmetric Information for Cloud-Enabled Internet of Controlled Things</b> Juntao Chen and Quanyan Zhu
11:45-1:30	POST	Lunch and Poster Session - Pfizer Atrium (First Floor)
<b>Session 5: Security Risks and Investments - Chair: Prof. David Pym</b>		
1:30-1:55	5.A	<b>Risk Averse Stackelberg Security Games with Quantal Response</b> Chicoisne Renaud and Fernando Ordonez
1:55-2:20	5.B	<b>Optimal and Game-Theoretic Deployment of Security Investments in Interdependent Assets</b> Ashish R. Hota, Abraham A. Clements, Shreyas Sundaram and Saurabh Bagchi
2:20-2:45	5.C	<b>Dynamics on Linear Influence Network Games under Stochastic Environments</b> Zhengyuan Zhou, Nicholas Bambos and Peter Glynn
2:45-3:05	X	Break
<b>Special Session and Panel: Validating Models - Chair: Prof. Milind Tambe</b>		
3:05-3:30	Sp.A	<b>Optimal Allocation of Police Patrol Resources Using a Continuous-Time Crime Model</b> Ayan Mukhopadhyay, Chao Zhang, Milind Tambe, Kenneth Pence, Paul Speer and Yevgeniy Vorobeychik
3:30-3:55	Sp.B	<b>Patrolling a Pipeline</b> Steve Alpern, Thomas Lidbetter, Alec Morton and Katerina Papadaki
3:55-4:20	Sp.C	<b>A Methodology to Apply a Game Theoretic Model of Security Risks Interdependencies Between ICT and Electric Infrastructures</b> Ziad Ismail, Jean Leneutre, David Bateman and Lin Chen
4:20-4:25	X	Brief Break
4:25-5:25	Sp.P	<b>Panel Discussion</b> Capt. Tom Morkan (US Coast Guard) CDR Brian Murphy (US Coast Guard) Nathaniel Gleicer (Illumio; Former Director for Cybersecurity Policy for the National Security Council) Dr. Pratyusa Manhadatta (HP Labs) Ron Sartini (Transportation Security Administration)

**Conference Dinner: 7:00 - NYU Torch Club, 18 Waverly Place, New York (Manhattan)**

DAY 3 - FRI NOV 4		
Time	Session	Activity
8:30-9:00	X	Registration and Breakfast
<b>Session 6: Information Limitations - Chair: Jeffrey Pawlick</b>		
9:00-9:25	6.A	<b>A Point-Based Approximate Algorithm for One-Sided Partially Observable Pursuit Evasion Games</b> Karel Horák and Branislav Bošanský
9:25-9:50	6.B	<b>Network elicitation in adversarial environment</b> Marcin Dziubiński, Piotr Sankowski and Qiang Zhang
9:50-10:15	6.C	<b>Optimal Thresholds for Anomaly-Based Intrusion Detection in Dynamical Environments</b> Amin Ghafouri, Waseem Abbas, Aron Laszka, Yevgeniy Vorobeychik and Xenofon Koutsoukos
10:15-10:45	X	Break
<b>Session 7: Intrusion and Exfiltration Detection - Chair: Dr. William Casey</b>		
10:45-11:10	7.A	<b>Data Exfiltration Detection and Prevention: Virtually Distributed POMDPs for Practically Safer Networks</b> Sara Mc Carthy, Arunesh Sinha, Milind Tambe and Pratyusa Manadhata
11:10-11:35	7.B	<b>Consensus Algorithm with Censored Data for Distributed Detection with Corrupted Measurements: A Game-Theoretic Approach</b> Kassem Kallas, Benedetta Tondi, Riccardo Lazzeretti and Mauro Barni
11:35-11:45	X	<b>Closing Remarks (Chair)</b>