GameSec 2018 - October 29-31, 2018 Seattle, WA

DAY 1 – MON OCT 29							
Time	Session	Activity					
8:30-9:00		Registration & Coffee					
Tutorial Session	Tutorial Session "Game-Theoretic Security" (Chair: Quanyan Zhu)						
9:00-10:15		Algorithms for Solving Dynamic Games with Imperfect Information Branislav Bošanský, Czech Technical University					
10:15-10:45		Coffee Break					
10:45 - 12:00		Game Theory for Cyber Deception					
		Jeff Pawlick, NYU					
12:00-13:30		Lunch (on own)					
13:30-13:45		Opening Remarks (General Chairs, Tamer Başar and Radha Poovendran; TPC Chair, Linda Bushnell)					
13:45-14:45		Plenary Talk #1: Security and Trust in Networked Systems: Logic, Analysis, Graphs and Games (Chair: Radha John Baras, University of Maryland					
14:45-15:15		Coffee Break					
Session 1: Secur	rity Mechanisms ar	nd Privacy (Chair: Linda Bushnell)					
15:15-15:40	1.A	Impact of Privacy on Free Online Service Markets					
		Chong Huang and Lalitha Sankar					
15:40-16:05	1.B	Cyber-warranties as a quality signal for information security products					
		Daniel W. Woods and Andrew C. Simpson					
16:05-16:30	1.C	Multi-sided Advertising Markets: Dynamic Mechanisms and Incremental User Compensations					
		Moran Feldman, Gonen Frim and Rica Gonen					
16:30-16:55	1.D	Game Theoretic Analysis of a Byzantine Attacker in Vehicular Mix-Zones					
		Nick Plewtong and Bruce Debruhl					
16:55-17:20	1 E	A Differentially Private and Truthful Incentive Mechanism for Traffic Offload to Public Transportation Luyao Niu and Andrew Clark					
17:30-18:30		Invited Talk: "Radical View in S&T Learn2Reason, CryptoFactory & BFT++"					
		Sukarno Mertoguno, Office of Naval Research					

DAY 2 – TUE OC	T 30		
Time	Session	Activity	
8:30-9:00		Registration & Coffee	
9:00-10:00		Plenary Talk #2: Estimation in Cyber-Physical Systems Under Attack (Chair: Tamer Başar)	
9.00-10.00		Joao Hespanha University of California, Santa Barbara	
10:00-10:30		Coffee Break	
Session 2: Adver	rsarial Games (Cha	air: Tansu Alncan)	
10:30-10:55	2.A	Colonel Blotto Game with Coalition Formation for Sharing Resources	
10.50 10.55	2.7 (Joseph Heyman and Abhishek Gupta	
10:55-11:20	2.B	Distributed Aggregative Games on Graphs in Adversarial Environments	
		Bahare Kiumarsi and Tamer Basar	
11:20-11:45	2.C	Scaling-up Stackelberg Security Games Applications using Approximations	
		Arunesh Sinha, Aaron Schlenker, Donnabell Dmello and Milind Tambe	
11:45-12:10	2.D	An Initial Study of Targeted Personality Models in the FlipIt Game	
		Anjon Basak, Jakub Černý, Marcus Gutierrez, Curtis Shelby, Charles A Kamhoua, Daniel Jones,	
		Branislav Bosansky and Christopher Kiekintveld	
12:10-13:30		Lunch (provided) and Panel	
	1,4, 11,,		
	al World Uses of G	Fame Theory for Security (Chair: Millind Tambe)	
12:10-13:30		Detlof von Winterfeldt; USC for Physical Security	
		Kevin Chan; Army Research Labs for Cybersecurity	
		James Slade; SMART Partnership	
Session 3: Dece	ption and Security	(Chair: Shana Moothedath)	
13:30-13:55	3.A	A Game-Theoretic Analysis of the Adversarial Boyd-Kuramoto Model	
		Antonin Demazy, Tansu Alpcan and Alex Kalloniatis	
13:55-14:20	3.B	Hypothesis Testing Game for Cyber Deception	
		Tao Zhang and Quanyan Zhu	
14:20-14:45	3.C	A Two-Stage Deception Game for Network Defense	
		Wei Wang and Bo Zeng	
14:45-15:10	3.D	Imbalanced Collusive Security Games	
		Han-Ching Ou, Milind Tambe, Bistra Dilkina and Phebe Vayanos	
15:10-15:40		Coffee Break	
Session 4: Specia	al Session: "Advers	sarial Al" (Chair: Eugene Vorobeychik)	
15:40-16:05	4.A	Training Set Camouflage	
		Ayon Sen, Scott Alfeld, Xuezhou Zhanq, Ara Vartanian, Yuzhe Ma and Xiaojin Zhu	
16:05-16:30	4.B	Reinforcement Learning for Autonomous Defence in Software-Defined Networking	
		Yi Han, Benjamin Rubinstein, Tamas Abraham, Tansu Alpcan, Olivier De Vel, Sarah Erfani,	
		David Hubczenko, Christopher Leckie and Paul Montague	
16:30-16:55	4.C	Data Poisoning Attacks in Contextual Bandits	
		Yuzhe Ma, Kwang-Sung Jun, Lihong Li and Xiaojin Zhu	
16:55-17:55		Panel Discussion	
19:00-21:00		Conference Dinner: UW Club, 4020 E Stevens Way NE, Seattle, WA 98195	
		Best Paper Awards, Sponsored by MDPI Games	
		, ,	

Time Session Activity 8:30-9:00 Registration & Coffee Session 5: APT (Chair: Erik Miehling) Vol. 1 (Stage Dynamic Information Flow Tracking Game Shana Moothedath, Dinuka Sohabandu, Andrew Clark, Sangho Lee, Wenke Lee and Radha Poovendran Analysis and Computation of Adaptive Defense Strategies Against Advanced Persistent Threats for Cyber-physical Systems Linan Huang and Quanyan Zhu 9:50-10:15 5.C Moving Target Defense for the Placement of Intrusion Detection Systems in the Cloud Sailik Sengupto, Ankur Chowdhary, Dijiang Huang and Subbarao Kambhampati 10:15-10:40 5.D A Game Theoretical Framework for Inter-Process Adversarial Intervention Detection Muhammed Soyin, Hossien Hosseini, Radha Poovendran and Tamer Bagar Coffee Break Session 6: Poster Session (Chair: Linda Bushnell) Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeybots for Network Defense Justim Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, McI Hossain, Matthias Brust and Noomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Josnim Wocher, Stefan Ross, Sandar König and Stefa	DAY 3 – WED OCT 31					
Session 5: APT (Chair: Erik Miehling) 9:00-9:25 5.A Multi-Stage Dynamic Information Flow Tracking Game Shana Moothedath, Dinuka Sahabandu, Andrew Clark, Songho Lee, Wenke Lee and Radha Poovendran 9:25-9:50 5.B Analysis and Computation of Adaptive Defense Strategies Against Advanced Persistent Threats for Cyber-physical Systems Linan Huang and Quanyan Zhu 9:50-10:15 5.C Moving Target Defense for the Placement of Intrusion Detection Systems in the Cloud Sailik Sengupta, Ankur Chowdhary, Dijiang Huang and Subbarao Kambhampati 10:15-10:40 5.D A Game Theoretical Framework for Inter-Process Adversarial Intervention Detection Muhammed Sayin, Hossien Hosseini, Radha Poovendran and Tamer Başar Coffee Break Session 6: Poster Session (Chair: Linda Bushnell) 11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.B Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Ross, Sandra König and Stefan Schauer Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nayuen, Sky Wong and Arunesh Sinha 11:10-12:15 6.H Alearning and Masking Approach to Secure Learning Linh Nayuen, Sky Wong and Arunesh Sinha 11:10-12:15 6.H Alearning and Masking Approach to Secure Learning Linh Nayuen, Sky Wong and Arunesh Sinha 11:10-12:15 6.H Alearning and Masking Approach to Secure Learning Linh Nayuen, Sky Wong and Arunesh Sinha 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	Time	Session	Activity			
9:00-9:25 5.A Multi-Stage Dynamic Information Flow Tracking Game Shana Moothedath, Dinuka Sahabandu, Andrew Clark, Sangho Lee, Wenke Lee and Radha Poovendran 9:25-9:50 5.B Analysis and Computation of Adaptive Defense Strategies Against Advanced Persistent Threats for Cyber-physical Systems Linan Huang and Quanyan Zhu 9:50-10:15 5.C Moving Target Defense for the Placement of Intrusion Detection Systems in the Cloud Sailik Sengupta, Ankur Chowdhary, Dijiang Huang and Subbarao Kambhampati 10:15-10:40 5.D A Game Theoretical Framework for Inter-Process Adversarial Intervention Detection Muhammed Sayin, Hossien Hosseini, Radha Poovendran and Tamer Başar Coffee Break Session 6: Poster Session (Chair: Linda Bushnell) 11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.B Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Transu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.H A Learning and Masking Approach of Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	8:30-9:00		Registration & Coffee			
9:00-9:25 5.A Multi-Stage Dynamic Information Flow Tracking Game Shana Moothedath, Dinuka Sahabandu, Andrew Clark, Sangho Lee, Wenke Lee and Radha Poovendran 9:25-9:50 5.B Analysis and Computation of Adaptive Defense Strategies Against Advanced Persistent Threats for Cyber-physical Systems Linan Huang and Quanyan Zhu 9:50-10:15 5.C Moving Target Defense for the Placement of Intrusion Detection Systems in the Cloud Sailik Sengupto, Ankur Chowdhary, Dijiang Huang and Subbarao Kambhampati 10:15-10:40 5.D A Game Theoretical Framework for Inter-Process Adversarial Intervention Detection Muhammed Sayin, Hossien Hosseini, Radha Poovendran and Tamer Başar Coffee Break Session 6: Poster Session (Chair: Linda Bushnell) 11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Motthias Brust and Naomi Johnson 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamol Weerasinghe, Transu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Guiterrez and Christopher Kiekintveld						
Shana Moothedath, Dinuka Sahabandu, Andrew Clark, Sangho Lee, Wenke Lee and Radha Poovendran 9:25-9:50 5.B Analysis and Computation of Adaptive Defense Strategies Against Advanced Persistent Threats for Cyber-physical Systems Linan Huang and Quanyan Zhu 9:50-10:15 5.C Moving Target Defense for the Placement of Intrusion Detection Systems in the Cloud Sailik Sengupta, Ankur Chowdhary, Dijiong Huang and Subbarao Kambhampati 10:15-10:40 5.D A Game Theoretical Framework for Inter-Process Adversarial Intervention Detection Muhammed Sayin, Hossien Hosseini, Radha Poovendran and Tamer Başar Coffee Break Session 6: Poster Session (Chair: Linda Bushnell) 11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.B Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Ross, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	Session 5: APT (0	Chair: Erik Miehlin	-			
9:25-9:50	9:00-9:25	5.A				
Cyber-physical Systems Linan Huang and Quanyan Zhu 9:50-10:15 5.C Moving Target Defense for the Placement of Intrusion Detection Systems in the Cloud Sailik Sengupta, Ankur Chowdhary, Dijiang Huang and Subbarao Kambhampati 10:15-10:40 5.D A Game Theoretical Framework for Inter-Process Adversarial Intervention Detection Muhammed Sayin, Hossien Hosseini, Radha Poovendran and Tamer Başar 10:40-11:10 Coffee Break Session 6: Poster Session (Chair: Linda Bushnell) 11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld						
9:50-10:15 5.C Moving Target Defense for the Placement of Intrusion Detection Systems in the Cloud Sailik Sengupta, Ankur Chowdhary, Dijiang Huang and Subbarao Kambhampati 10:15-10:40 5.D A Game Theoretical Framework for Inter-Process Adversarial Intervention Detection Muhammed Sayin, Hossien Hosseini, Radha Poovendran and Tamer Başar Coffee Break Session 6: Poster Session (Chair: Linda Bushnell) 11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	9:25-9:50	5.B	, , , , , , , , , , , , , , , , , , , ,			
9:50-10:15 5.C Moving Target Defense for the Placement of Intrusion Detection Systems in the Cloud Salik Sengupta, Ankur Chowdhary, Dijiang Huang and Subbarao Kambhampati 10:15-10:40 5.D A Game Theoretical Framework for Inter-Process Adversarial Intervention Detection Muhammed Sayin, Hassien Hosseini, Radha Poovendran and Tamer Başar 10:40-11:10 Session 6: Poster Session (Chair: Linda Bushnell) 11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaausis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld						
Sailik Sengupta, Ankur Chowdhary, Dijiang Huang and Subbarao Kambhampati 10:15-10:40 5.D A Game Theoretical Framework for Inter-Process Adversarial Intervention Detection Muhammed Soyin, Hossien Hosseini, Radha Poovendran and Tamer Başar 10:40-11:10 Coffee Break Session 6: Poster Session (Chair: Linda Bushnell) 11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wong and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld			<u> </u>			
10:15-10:40 5.D A Game Theoretical Framework for Inter-Process Adversarial Intervention Detection Muhammed Sayin, Hossien Hosseini, Radha Poovendran and Tamer Başar 10:40-11:10 Coffee Break Session 6: Poster Session (Chair: Linda Bushnell) 11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Ross, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	9:50-10:15	5.C				
Muhammed Sayin, Hossien Hosseini, Radha Poovendran and Tamer Başar Coffee Break Session 6: Poster Session (Chair: Linda Bushnell) 11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld						
Session 6: Poster Session (Chair: Linda Bushnell) 11:10-12:15	10:15-10:40	5.D	A Game Theoretical Framework for Inter-Process Adversarial Intervention Detection			
Session 6: Poster Session (Chair: Linda Bushnell) 11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld						
11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	10:40-11:10		Coffee Break			
11:10-12:15 6.A Less is More: Culling the Training Set to Improve Robustness of Deep Neural Networks Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	Session 6: Poster	Session (Chair: Li	inda Rushnell)			
Yongshuai Liu, Jiyu Chen and Hao Chen 11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld		•	·			
11:10-12:15 6.B Optimal Placement of Honeypots for Network Defense Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	11.10 12.13	0.71	· · · · · · · · · · · · · · · · · · ·			
Justin Mauger, Mark Bilinski and Ryan Gabrys 11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	11·10-12·15	6 B				
11:10-12:15 6.C A Game Theoretic Analysis of the Twitter Follow-Unfollow Mechanism Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	11.10 12.10	0.5	, , , , , , , , , , , , , , , , , , , ,			
Jundong Chen, Md Hossain, Matthias Brust and Naomi Johnson 11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	11:10-12:15	6.C				
11:10-12:15 6.D Disappointment-Aversion in Security Games Jasmin Wachter, Stefan Rass, Sandra König and Stefan Schauer 11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld			·			
11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	11:10-12:15	6.D	5 , , , , , , , , , , , , , , , , , , ,			
11:10-12:15 6.E Deep Learning Based Game-Theoretical Approach to Evade Jamming Attacks Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld		0.2	'''			
Sandamal Weerasinghe, Tansu Alpcan, Sarah M. Erfani, Christopher Leckie, Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	11:10-12:15	6.E				
Peyam Pourbeik and Jack Riddle 11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld			·			
11:10-12:15 6.F A Learning and Masking Approach to Secure Learning Linh Nguyen, Sky Wang and Arunesh Sinha Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld						
Linh Nguyen, Sky Wang and Arunesh Sinha 11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	11:10-12:15	6.F	,			
11:10-12:15 6.G Cyber-Insurance as a Signaling Game: Self-Reporting and External Security Audits Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld			9 9 11			
Aron Laszka, Emmanouil Panaousis and Jens Grossklags 11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	11:10-12:15	6.G				
11:10-12:15 6.H Algorithms for Subgame Abstraction with Applications to Cyber Defense Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld						
Anjon Basak, Marcus Gutierrez and Christopher Kiekintveld	11:10-12:15	6.H	·			
			· · · · · · · · · · · · · · · · · · ·			
11:45-13:00 Lunch (provided)						
	11:45-13:00		Lunch (provided)			

Session 7: Mode	els for Security (Chair: Aron Laszka)	
13:00-13:25	7.A	Game Theoretic Security Framework for Quantum Key Distribution Walter Krawec and Fei Miao	
13:25-13:50	7.B	Perfectly Secure Messsage Transmission against Rational Timid Adversaries Maiki Fujita, Kenji Yasunaga and Takeshi Koshiba	
13:50-14:15	7.C	Rational Trust Modeling <i>Mehrdad Nojoumian</i>	
14:15-14:40	7.D	A Bayesian Multi-armed Bandit Approach for Identifying Human Vulnerabilities Erik Miehling, Baicen Xiao, Radha Poovendran and Tamer Başar	
14:40-15:10		Coffee Break	
Session 8: Logic	(Chair: Bhaskar	Ramasubramanian)	
15:10-15:35	8.A	Towards Scientific Incident Response Jonathan M Spring and David Pym	
15:35-16:00	8.B	Towards True Decentralization: A Blockchain Consensus Protocol Based on Game Theory and Randomness Naif Alzahrani and Nirupama Bulusu	
16:00-16:25	8.C	Approximating Power Indices to Assess Cybersecurity Criticality Daniel Clouse and David Burke	
16:25-16:50	8.D	A Robust Optimization Approach to Designing Near-Optimal Strategies for Constant-Sum Monitoring Games Aida Rahmattalabi, Phebe Vayanos and Milind Tambe	
16:50-17:05		Closing Remarks (General Chairs, Tamer Başar and Radha Poovendran)	