

2021 Trust & Influence Program Review

Dr. Laura Steckman | August 16-21, 2021 | Virtual

Agenda Day 1 | Monday, August 16, 2021

Time	Topic	Speaker
8:00-8:30	Zoomgov Login	
8:30-9:30	PI Meeting – For Program PIs only	
9:30-10:30	Program Kickoff Trusted Artificial Intelligence	Laura Steckman, AFOSR Keynote Speaker: Mark Maybury, Chief Technology Officer Stanley Black & Decker
10:30-10:45	BREAK	
10:45-10:55	The Spread of Trust and Distrust in Distributed Human-Autonomy Teaming Constellations	Nathan McNeese, Clemson
10:55-11:05	Trust Dynamics in Heterogeneous Human-Agent Teams: Applying Multilevel and Unobtrusive Perspectives	Meredith Carroll, Florida Institute Of Technology, Inc.
11:05-11:15	The Ethics Of Warfighter Participation in the Development and Testing of AI-Driven Performance Enhancements	Nicholas Evans, Massachusetts University of Lowell MA
11:15-11:25	Moral Justification to Foster Human-Machine Trust User's Speech	Elizabeth Phillips, George Mason University, and Bertram F. Malle, Brown University
11:25-11:30	Detecting Distrust towards a Virtual Assistant from the User's Speech	Luciana Ferrer, Fundacion Ciencias Exactas Y Naturales
11:35-11:45	Factors Influencing Trust In Technology	Sonia Sousa, Tallinna Ulikool
11:45-11:55	Human & Intelligent-Agent Trust for Ethical and Effective Teaming	Chad Tossell, Air Force, United States Department of the US Air Force Academy
11:55-12:05	Growing Chinese Economic Power and the Exacerbating Effects of U.S. Economic Interdependence	Shade Shutters, Arizona State University
12:05-12:15	Complex Linkages, Ambivalent Ties: Global Security and Economic Interdependence in the 21st Century	Erik Gartzke, University of California, San Diego
12:15-1:00	LUNCH	

1:00-1:30	Addressing Resilience in the Western Alliance Against Fragmentation: Willingness to Sacrifice and the Spiritual Dimension of Intergroup Cooperation and Conflict	Scott Atran, Pembroke College Oxford
1:30-2:00	The Topology of Interdependent Multi-Domain Behavioral Systems	Nina Fefferman, University of Tennessee Knoxville TN
2:00-2:30	The Strength of Social Norms Across Cultures Implications for Intercultural Conflict and Cooperation	Shinobu Kitayama, University of Michigan and Michele Gelfand, University of Maryland
2:30-2:45	BREAK	
2:45-3:15	Total War: Multi-Agent Network Theory of Connective Action in a Cross-Domain Coupled World	Neil Johnson, The George Washington University
3:15-3:30	BREAK	
3:30-4:00	Organizational Implications of Autonomy-Mediated Interaction	Jonathan Gratch, University of Southern California
4:00-5:00	PI Meeting – For PIs Only	
4:00-5:00	Student Social	Instructions to be provided
	MEETING ADJOURN	

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Agenda Day 2 Tuesday, August 17, 2021		
Time	Topic	Speaker
7:45-8:00	Zoomgov Login	
8:00-8:30	Examining Oxytocin as a Causal Mechanism for Long-Term Bonding Between Humans and Autonomy	Frank Krueger, George Mason University
8:30-9:00	The Dynamics of Common Knowledge on Social Networks: An Experimental Approach	Read Montague, Virginia Polytechnic Inst and State University/Gizem Korkmaz, University Of Virginia

9:00-9:30	The Social and Neurological Construction of Martyrdom	Robert Pape, The University of Chicago
9:30-9:40	BREAK	
9:40-10:10	Trust Building in Human-Autonomy Teaming: A Reinforcement Learning Approach	X. Jessie Yang, Regents of The University of Michigan
10:10-10:40	Moral Agency in Robot-Human Interactions (MARIA): Perceptions, Trust, and Influence	Jaime Banks, Texas Tech
10:40-11:00	BREAK	
11:00-11:15	Intelligent Tactical Autopilot to Advance Basic Understanding of Human Reliance and Teaming in Mixed Human-Machine Teams	Thomas Schnell, The University of Iowa
11:15-11:45	Network-based Neurophysiological and Psychophysiological Metrics of Human Trust Dynamics When Teamed with Autonomy	Allison Anderson, Regents of The University of Colorado and Zhaodan Kong, University of California Davis
11:45-12:15	Calibrated Norm Violation Response in Human-Machine Teaming	Thomas Williams, Colorado School of Mines
12:15-12:45	Development of a Remote-fNIRS Device for use Under Naturalistic Working Conditions	Leanne Hirshfield, University of Colorado
12:45-1:30	LUNCH	
1:30-2:00	Trust Affordances in Human Automation Teaming	Laurel Riek, University Of California, San Diego
2:00-2:30	Trust in Machine Agents Under Realistic Threat	Colin Holbrook, University Of California Merced
2:30-3:00	Automatic Detection and Analysis of Extremist Video Content on Social Media using Text, Speech, and Visual Features	Julia Hirschberg, The Trustees of Columbia University in the City of New York
3:00-3:30	[Unavailable at this time]	Edmundo Molina, Tecnológico de Monterrey
3:30-3:45	BREAK	
3:45-5:00	Discussion Session	
	MEETING ADJOURN	

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Agenda Day 3 | Wednesday, August 18, 2021

Time	Topic	Speaker
7:45-8:00	Zoomgov Login	
8:00-8:30	Enabling Trusted Human-Like Artificial Teammates	Mattias Scheutz, Trustees of Tufts College Inc
8:30-9:00	Trust in Human-Robot Interaction via Embodiment and Theory of Mind	Angelo Cangelosi, University Of Manchester
9:00-9:30	Working with or around you? Investigating Team Growth and Adaptation with a Cooperative Machine Agent	Gregory Funke 711 Human Performance Wing (711th HPW) (AFRL/RH)
9:30-10:40	Discussion Session	
10:40-11:00	BREAK	
10:40-11:00	Trusted Distributed Human-Machine Teaming for Safe and Effective Space-based Missions	Nancy Cooke, Az Board of Regents on Behalf of Arizona State University
11:00-11:30	Extending Theoretical Trust Modelling: A Field Study of Heterogeneous Human-Machine Teams Operating in Contexts with Real Users, Real Systems, and Real Consequences	Nhut Ho, California State- Northridge
11:30-12:00	Small Steps and Giant Leaps: Remoteness, Bias, and Decision-making in Space	Michael Horowitz, Trustees of The University of Pennsylvania
12:15-1:00	LUNCH	
1:00-1:30	Detecting and Mitigating Adversarial Influence Operations in Networks	Kristina Lerman, University of Southern California
1:30-2:00	Adaptive Conventions for Trustworthy Human-Robot Interaction	Dorsa Sadigh, Stanford University
2:00-2:30	Modeling and Learning Highly Nonlinear Interactions within Social Media Networks	Eduardo Pasilliao, AFRL RW
2:30-3:30	Emotions, Attitudes, and the Moral Marketplace - A Proposal to Investigate the Psychological, Social, and Situational Determinants of Prosociality and Antisociality	Daniel Fessler, University of California – Los Angeles
3:30-3:45	BREAK	
3:45-4:15	Assessing the Impact of Exogenous Shocks on User Behavior and Information Diffusion in Social Media	Daniel Romero, Regents of The University of Michigan

4:15-4:25	BREAKOUT	
4:25-4:55	Considerations of Ethical and Unethical Behavior on Trust in Human-Autonomy Teaming	Nathan McNeese, Clemson
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Agenda Day 4 Thursday, August 19, 2021		
Time	Topic	Speaker
7:45-8:00	Zoom Login	
8:00-9:15	Toward Undifferentiated Cognitive Agents	Christopher Myers, 711 Human Performance Wing (711th HPW), Benji Maruyama, Materials and Manufacturing Directorate (AFRL/RX) Wright-Patterson AFB, OH, Dario Salvucci, Drexel University, Pascal Hitzler, Kansas State, and Mateen Rizki, Wright State University
9:15-9:45	RESPECT: Robot innEr SPEeCH for Trust	Antonio Chella, Universita' Degli Studi Di Palermo
9:45-9:55	BREAKOUT	
9:55-10:25	Supporting Trust Calibration And Attention Management in Human-Machine Teams	Nadine Sarter, Regents of The University of Michigan
10:25-10:55	The Warfighter's Tolerance for Autonomy and its Importance in Strategy & Systems Development	Jai Galliot, University of New South Wales
10:55-11:10	BREAK	
11:10-12:10	Discussion Session	
11:10-12:10	Student Social	Instructions to be provided
12:10-1:00	LUNCH	

1:00-1:30	Automation Biases in Human-Robot Trust Interactions	Gene Alarcon, 711 Human Performance Wing (711th HPW) (AFRL/RH)
1:30-2:00	Trustworthy Human Interaction with Robotic Swarms	Katia Sycara, Carnegie Mellon University
2:00-2:30	Improving Situation Awareness in Distributed Human-Robot Teams TAI Challenge:	Nancy Cooke, Arizona State University
2:30-2:45	A Quantum Holistic Trust Model for Calibrating Trusted Interactions Between a Human Agent and AI System	Peter Bruza, Queensland Institute of Technology
2:45-3:00	Quantifiable Expectability and Measurable Intentions: Computational Calibrated Trust in Human-AI Joint Activity	Eugene Santos, Dartmouth
3:00-3:15	Investigating Human Trust in AI: A Case Study of Human-AI Collaboration on a Speech-Based Data Analytics Task	Theodora Chaspari, Texas A&M
3:15-3:30	Developing an Extendable Bi-Directional Model of Human-AI Trust for Joint Action	Kosa Goucher-Lambert, University of California Berkeley
3:30-3:45	BREAK	
3:45-4:15	Spoken Indicators of Trust Across Cultures	Julia Hirschberg, The Trustees of Columbia University in the City of New York
4:15-4:25	Assessing the Impact of Right Wing Extremist Organization Propaganda on Radicalization and Support for Domestic Political Violence among Individuals with Military Service	Robert Pape, The University of Chicago
4:25-4:55	Linking Online Attention to Measurable Actions	Yu-Ru Lin, University of Pittsburgh and Lexing Xie, Australian National University
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Agenda Day 5 | Friday, August 20, 2021

Time	Topic	Speaker
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7:45-8:00	Zoom Login	
8:00-8:30	Simulating Social Influence based on Real-World Geographic Data: Emergent Narratives and Interactive Hypothesis Testing	Chris Martens, North Carolina State University
8:30-9:00	The Social Ecology of Radicalization: A Foundation for the Design of CVE Initiatives	Noemie Bouhana, University College London
9:00-9:30	Leveraging Wedge Issues among Populations Susceptible to the Influence or Control of the Islamic State	Scott Atran, Artis Research & Risk Modeling
9:30-9:40	BREAKOUT	
9:40-10:10	Mobilizing Media: A Deep and Comparative Analysis of Magazines, Music, and Videos in the Context of Terrorism	Tony Lemieux, Georgia State University Research Foundation Inc.
10:10-10:40	Foreign Military Training: Building Effective Armed Forces in Weak States	Will Reno, Northwestern University
10:40-11:00	BREAK	
11:00-11:30	Networked Social Influence and Acceptance in a New Age of Crises	Bailu Jin and Weisi Guo, Cranfield University
11:30-12:00	Mapping the Structure and Dynamics of the Scientific Ecosystem	Daniel Larremore, University of Colorado
12:00-12:15	BREAKOUT	
12:15-1:00	LUNCH	
1:00-1:30	Science Genome: A Scholarly Graph Embedding Framework to Uncover the Fundamental Dynamics of Scientific Enterprise	YY Ahn, Indiana University
1:30-2:00	The Disruptive Effects of Autonomy: Ethics, Trust, and Organizational Decision-making (MINERVA)	Michael Horowitz, Trustees of The University of Pennsylvania
2:00-2:30	Economic Interdependence and National Security in the 21st Century	Erik Gartzke, University of California, San Diego and David Sacko, US Air Force Academy
2:30-3:30	Algorithmic Personalization and Online Radicalization: A Mixed Methods Approach	Brian Ekdale, The University Of Iowa
3:30-3:45	BREAK	
3:45-4:45	Wrap up	
	MEETING ADJOURN	