



AGENDA

Theme: Benefits and Challenges of Large-Scale Analytics for Society

Monday, October 7, 2019

Time	Title
7:00 – 8:30 pm	Welcome Reception (Annapolis Atrium)

Tuesday, October 8, 2019

General Session location: The Ballroom

Time	Title	Speaker
7:00 – 8:00 am	Breakfast and Registration (Atrium)	
8:00 – 8:30 am	Welcome	Jim Ang, AHSC/PNNL
	George Cotter Award for Vision and Leadership in the Field of Data Analytics	Candy Culhane
8:30 – 9:15 am	Keynote: HPC and AI –The Next Horizon - Advancing Humanity's Grand Challenges	Debra Goldfarb, Intel
Session 1: Applications 1		TC Tuan, Moderator
9:15 – 10:00 am	DataOps - A New Methodology for Transformational Analytic Outcomes	Harlan Kadish, Tamr
10:00 – 10:15 am	Break (Atrium)	
10:15 – 11:00 am	Machine Learning of Interatomic Potentials	Justin Smith, LANL
11:00 – 11:45 am	Robust AI: How to Protect Your Networks - Whether Cyber or Neural	Steven Forsyth, NVIDIA Ed Raff, BAH
11:45 – 12:30 pm	Panel Discussion	
12:30 – 1:45 pm	Lunch (Atrium)	
Session 2: Applications 2		John Feo, Moderator
1:45 – 2:30 pm	Scalable Predictive Analytics for Optimizing Power Network Operations and Maintenance	Nagi Gebraeel, GA Tech
2:30 – 3:15 pm	Modeling Complex Data with Hypergraphs	Emilie Purvine, PNNL
3:15 – 3:30 pm	Break (Atrium)	
3:30 – 4:15 pm	Predicting Behavior in Complex, Interactive Systems	Julie Huff, Northrup Grumman
4:15 – 5:00 pm	Panel Discussion	
6:00 – 7:30 pm	Dinner (Atrium) The Evolution of Cyberspace and National Security – Challenging Assumptions	Sam Visner, NCF/MITRE and Georgetown
7:30 – 9:00 pm	Reception (Mainsail/Spinnaker)	

Wednesday, October 9, 2019
General Session location: The Ballroom

Time	Title	Speaker
7:00 – 8:30 am	Breakfast (Atrium) Registration (Atrium)	
8:30 – 9:15 am	Keynote: Early and Often: Taking AI Ethics Seriously	Dr. Heather Roff, JHU/AP
Session 3: Software		Ron Oldfield, Moderator
9:15 – 10:00 am	Software Data Analytics Framework for Detecting Malware and Machine Learning Back Doors	Doug Joseph, ARM
10:00 – 10:15 am	Break (Atrium)	
10:15 – 11:00 am	Data Analytics are Powerful – Handle with Care	Jeremy Wendt, SNL
11:00 – 11:45 am	Data Science Needs Interactive Supercomputing	Bill Reus, DoD
11:45 – 12:30 pm	Panel Discussion	
12:30 – 6:00 pm	Free time: Lunch and Dinner (on your own)	
6:00 – 7:30 pm	Random Access (The Ballroom) Sign-up sheet will be at registration table. Talks are limited to 8 minutes.	JT Halbert Moderator
7:30 – 9:00 pm	Reception/Poster Session (Mainsail/Spinnaker)	Students
	Georgetown University Air Quality: A Highly Modular, IoT Air Quality Monitor Incorporating Industry-leading Sensor Technology	Simra Ali Georgetown University
	Beyond GUAQ	Robert D’Angelo-Cosme Georgetown University
	Robust Detection of Computer Generated Text	Haydn Jones New Mexico Institute of Mining and Technology
	Protecting Nodes of Interest from Data Collectors in a Network	Ricky Laishram Syracuse University
	Advancing the Bases: Tensor Methods and the Frontiers of Generality	Matthew Merris Boise State University
	Modeling and Assessment of Reliability and Availability for Parallel Systems incorporating Checkpointing and Rejuvenation	Vidya Nagaraju University of Massachussets

Thursday, October 10, 2019
General Session location: The Ballroom

Time	Title	Speaker
7:00 – 8:30 am	Breakfast (Atrium)	
8:30 – 9:15 am	Keynote: Development and Use of AI for Army Applications	BG Matthew Easley, US Army
Session 4: Hardware		Richard Murphy, Moderator
9:15 – 10:00 am	xBGAS: Extended Base Global Address Space Architecture for High-Performance Computing	Michel Kinsy, Boston University
10:00 – 10:15 am	Break (Atrium)	
10:15 – 11:00 am	Accelerating Large Scale Analytics with Cerebras	Andy Hock, Cerebras
11:00 – 11:45 pm	AI and the Memory Innovations That Will Be Created as a Result	Steve Pawlowski, Micron
11:45 – 12:30 pm	Panel Discussion	
12:30 – 1:45 pm	Lunch (Atrium)	
Session 5: Policy		David Haglin, Moderator
1:45 – 2:30 pm	Smart City Data Collection at Scale Has Major Privacy and Policy Challenges	Isaac Potoczny-Jones, Tozny
2:30 – 3:15 pm	Data as the Driver of Biomedical Research: Why aren't we going faster?	Jack Collins, Frederick National Laboratory
3:15 – 3:30 pm	Break (Atrium)	
3:30 – 4:15 pm	Machine Learning at the Edge: Impact on Analytics, Business, and Privacy	Chris Krieger, DoD
4:15 – 5:00 pm	Panel Discussion	
5:00 – 5:15 pm	Closing Remarks and Adjourn	