

## Agenda

Wednesday, November 16, 2016

Started in 2012, the SERC Doctoral Students Forum (previously called the SERC Doctoral Fellows Program Forum) provides a unique venue for doctoral students to present their research in an open assembly of leading systems thinkers from government, industry, and academia. Doctoral students from SERC collaborating universities are invited and encouraged to present their work, even if the research was not funded through a SERC research task.

Opening Remarks	
12:15p–12:50p	Registration, Check-in, and Networking Time
12:50p–12:55p	Welcome and Introductions by the SERC Chief Technology Officer <i>Dr. Jon Wade, Chief Technology Officer and Research Council Member, SERC</i>
12:55p–1:00p	Opening Remarks from the SERC Executive Sponsor <i>Mr. Scott Lucero, SERC Program Manager, Office of the Deputy Assistant Secretary of Defense for Systems Engineering</i>
SERC Doctoral Fellow Presentation	
1:00p–1:20p	Pattern Recognition Inference Engine for Improvised Explosive Devices Detection <i>Mr. Jorge Buenfil, ARDEC-Picatiny Arsenal SERC Doctoral Fellow</i>
Presentations by selected Doctoral Students	
1:20p–1:40p	On System Dynamics Modeling of Human-Intensive Workflow Improvement – Case Study in Cybersecurity Adaptive Knowledge Encoding <i>Mr. Keith Willett, Stevens Institute of Technology</i>
1:40p–2:00p	Software Reliability Modeling <i>Ms. Vidhyashree Nagaraju, University of Massachusetts</i>
2:00p–2:20p	Predicting the Level of Technical Debt at Early Lifecycle of Software System Development <i>Mr. Qiao Zhang, Southern Methodist University</i>
2:20p–2:40p	Self-Organizing Cooperative Dynamics in Government Extended Enterprises <i>Mr. Lawrence John, Stevens Institute of Technology</i>
2:40p–3:20p	Break
3:20p–3:40p	Identifying the Requirements and Design Variables for New Aircraft Considering Fleet-Level Objectives Under Uncertainties <i>Mr. Satadru Roy, Purdue University</i>
3:40p–4:00p	Manufacturing Cost Prediction in the Presence of Categorical and Numeric Design Attributes <i>Mr. Eren Sakinc, Auburn University</i>
4:00p–4:20p	Computational Intelligence Approaches to System of Systems Architecting <i>Mr. David M. Curry, Missouri University of Science and Technology</i>
4:20p–4:40p	Resilience Analytics with Application to Power Grid of a Developing Region <i>Mr. Heimir Thorisson, University of Virginia</i>
4:40p–5:00p	Executable Behavior Modeling of System- and Software-Architecture Specifications to Inform Resourcing Decisions <i>Ms. Monica Farah-Stapleton, Naval Postgraduate School</i>
5:00p–5:15p	Discussion and Wrap-up
SERC Collaborator Reception (Rooftop Terrace)	
5:15p–7:00p	Networking Reception for all attendees