



# 2013 Doctoral Research Symposium - DRS@SSE

School of Systems and Enterprises, Stevens Institute of Technology

May 20 and 21, 2013

# Agenda

## May 20, 2013

- 08:00am Breakfast
- 08:30am Opening Remarks Dean
- 08:45am Session 1 (4 Students)  
[2, 6, 15, 17]
- Networking Break
- 10:30am Session 2 (4 Students)  
[5, 7, 12, 22]
- 12:00pm Lunch + George Korfiatis  
Remarks (90 minutes)
- 02:00pm Session 3 (4 Students)  
[3, 13, 16, 23]
- Networking Break
- 04:00pm Session 4 (4 Students)  
[1, 18, 19, 20]
- 05:30pm Dinner

# Agenda

## May 21, 2013

- **08:00am**                      **Breakfast**
- **08:30am**                      **Session 5 (4 students)**  
**[8, 9, 14, 21]**
- **Networking Break**
- **10:30am**                      **Session 6 (4 students)**  
**[4, 10, 11, 24]**
- **12:30pm**                      **Lunch + Research Talk**  
**by Dr. Bill Rouse**
- **01:30pm**                      **Discussion Forum (Agent**  
**Based Simulation in Systems**  
**Research) – Faculty**
- **3:30pm**                         **Award Presentation**
- **04:30pm**                      **Adjourn**

## 2013 SSE Doctoral Research Symposium Presentation Schedule

Session ID	Session Topic	Presentation ID	Presenter	Presentation Title
1	Intelligent Systems	2	Lauren Landrigan	DEVELOPING CREDIBILITY TRAINING FOR EMERGENCY SITUATIONS TOWARDS AN UNDERSTANDING OF ARTIFICIAL BIOSPHERES AS QUASI-AUTOPOIETIC
1	Intelligent Systems	6	Paul S Giovanni	KNOWLEDGE TRANSFER IN ORGANIC AND MECHANISTIC ORGANIZATIONS STATE GOVERNMENT TRANSPORTATION RESEARCH ORGANIZATIONS
1	Intelligent Systems	15	Camille Crichton-Summers	IMPACT OF SMART CITIES ON URBAN SUSTAINABILITY: A MULTIDISCIPLINARY SYSTEMS STUDY (SUSTAINABLE BEHAVIOR AND PLANNING)
1	Intelligent Systems	17	Nasrin Khansari	RESILIENCE STRATEGY DESIGN FOR CRITICAL INFRASTRUCTURE NETWORK AGAINST DISRUPTIONS
2	System Architecture	5	Qing Li	ARCHITECTURE ENTROPY OF ENGINEERED SYSTEMS
2	System Architecture	7	Mary Bone	ELABORATION AND VALIDATION OF AN EXTENDED ENTERPRISE SYSTEM ARCHITECTURE AS A PLATFORM FOR REDRESSING WICKED PROBLEMS
2	System Architecture	12	James Mason	MEASURING IT RISK ACROSS COMPLEX SYSTEMS: A LITERATURE SYNTHESIS
2	System Architecture	22	Jerry Friedhoff	GOVERNING THE PUBLIC EXTENDED ENTERPRISE: STRUCTURES FOR EFFECTIVE OPERATIONS
3	Systems	3	Robert Edson	REGULATING THE BEHAVIOR OF ENGINEERED COMPLEX SYSTEMS USING BOOLEAN NETWORKS
3	Systems	13	George Polacek	A FRAMEWORK FOR GOVERNING COMPETITION AND COLLABORATION IN NETWORK INDUSTRIES USING AGENT-BASED MODELING: A CASE-STUDY OF THE UNITED STATES AIR TRANSPORTATION
3	Systems	16	Hamid R. Darabi	

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Session ID	Session Topic	Presentation ID	Presenter	Presentation Title
	Behavior of Complex Systems	23	Larry John	SELF-ORGANIZING COOPERATIVE DYNAMICS IN GOVERNMENT EXTENDED ENTERPRISES
4	Socio-technical Systems	1	Mohammed Muaafa	MULTI-CRITERIA DECISION MAKING FRAMEWORK FOR BORDER SECURITY
4	Socio-technical Systems	18	James Armstrong	DEVELOPMENT OF EXPERT SYSTEMS ENGINEERS
4	Socio-technical Systems	19	Mohsen Mosleh	MICROGRID NETWORKS: A SOCIO-TECHNICAL SYSTEM APPROACH
4	Socio-technical Systems	20	Mayur Chikhale	A FRAMEWORK FOR GOVERNING UNCERTAINTY AND COLLABORATION OF ENTITIES IN LARGE-SCALE ENTERPRISE SYSTEMS: A COMPONENT BASED ENGINEERING DESIGN APPROACH
5	Complex Adaptive Systems	8	Robert Pitsko	PRINCIPLES FOR ARCHITECTING INHERENTLY ADAPTABLE COMPLEX SYSTEMS
5	Complex Adaptive Systems	9	Matthew Cilli	ADVANCING THE ART OF SYSTEMS ENGINEERING TRADE ANALYSIS
5	Complex Adaptive Systems	14	Murthy Rallapalli	PRIVACY TIPPING POINTS IN SOCIO-TECHNICAL SYSTEMS
5	Complex Adaptive Systems	21	Brian Phillips	VERIFICATION POINTS FOR SELF-ADAPTIVE SYSTEMS
6	Complex System Modeling	4	Sheung Yin Kevin Mo	A STUDY OF DARK POOL TRADING USING AN AGENT-BASED MODEL
6	Complex System Modeling	10	Alejandro Salado	USING REQUIREMENTS ENGINEERING TO PROMOTE SYSTEM AFFORDABILITY BY MAXIMIZING AND ADAPTING THE SOLUTION TRADESPACE
6	Complex System Modeling	11	David Floyd	"HIGH-DIMENSIONAL GEOMETRIC METHODS FOR STRUCTURAL DISCOVERY IN COMPLEX SYSTEMS"
6	Complex System Modeling	24	Luis Ortega	A NEURO-WAVELET MODEL FOR THE SHORT-TERM FORECASTING OF HIGH-FREQUENCY TIME SERIES OF STOCK RETURNS