

Year 8: Industry Advisory Board (IAB) New Projects Meeting May 11-12, 2016

Location: Morris Library, 7th Floor, SIUC Academic Host: Southern Illinois University Carbondale

Agenda May 9, 2016

Objectives

- Provide a forum for NSF, CES IAB members, faculty, and students to interact and discuss research projects, areas of interest, and opportunities
- Deliver a brief update on Center activities, discuss and approve Year 7 projects
- Conduct IAB business meeting

Wednesday, May 11, 2016

7:15am	Bus leaves Hampton Inn – to Morris Library, SIU Campus
7:30 - 8:00 am	Registration Check-in and Coffee, Morris Library 7 th Floor
8:00 – 8:15 am	Welcome, John Warwick, Dean, SIU College of Engineering
8:15 - 8:25 am	Introductions, Spyros Tragoudas, Site Director SIU
8:25 - 8:40 am	State of the Center, Sarma Vrudhula, Center Director
8:40 – 9:00 am	NSF Message, Craig Scott, University of Washington, NSF Evaluator
9:00 – 9:10 am	Break
9:10 - 9:15 am	Presentation Format Overview, Rudy Beraha, Qualcomm, CES – IAB Chair
9:15 - 9:50 am	New Projects, year 8 proposals – GROUP 1
(5 min presentations)	1.1 On the Verification of Formal Methods for Digital Embedded Control Systems, PIs: D. Kagaris, S. Tragoudas, SIU
	1.2 Automated Testing for Functional Coverage for Cyber-Physical Systems, PI: G. Fainekos, ASU
	1.3 Incremental Analysis and Complex Pattern Discovery from Sensor Streams, Student: Xilun Chen for PI: K.S. Candan, ASU
	1.4 Environmental Information and Multi-Sensor Data Fusion Based Performance Estimations for Smart Cars, PI: I. Anagnostopoulos, SIU
	1.5 Dynamic Memory Interference-Aware Technique for Energy-Efficient, QoS-Aware Mobile Web Browsing, PI: C. Wu, ASU
	1.6 Supporting Smart Machine Communication with Private LTE Network, PIs: K. Chen, G. Aruma Badgue, SIU
	1.7 Design of Non-Volatile Logic Circuits for Energy Efficient Design, PI: S. Vrudhula, ASU
9:50 - 11:10 am	Poster Session, year 8 projects – GROUP 1
11:10 - 11:30 am	Complete LIFE Forms online (10 minutes), year 8 proposals – GROUP 1
	LIFE Forms Feedback: Discussion (10 minutes), year 8 proposals – GROUP 1
11:30 - 12:30 pm	LUNCH
11.30 - 12.30 hill	LONGI

12:30 – 1:00 pm	New Projects, year 8 proposals – GROUP 2
(5 min presentations)	
(3 min presentations)	2.1 Accurate and Scalable RTL-level Fault Injection Simulation for Industrial and
	Automotive Standards, PIs: S. Tragoudas, T. Haniotakis, SIU
	2.2 Building Data-Driven Compressive Sensing Based Wireless Sensor Node for
	Personalized IoT, PI: F. Ren, ASU
	2.3 Power-over-Communication Approach for Integrating Remote Sensors to Motor
	Drives, PI: C. Hatziadoniu, SIU
	2.4 Mutual Learning and Adaptation for Robot to Human Object Handover, Student:
	Kevin Luck for PI: H. Amor, ASU
	2.5 Internet-of-Things Applications Development for Private LTE Small-Cell Networks,
	PIs: I. Anagnostopoulos, G. Aruma Badgue, SIU
	2.6 Dynamic Feature Selection and model Construction for Predicting Performance of
	MPSoCs, PI: S. Vrudhula, ASU
1:00 - 2:30 pm	Poster Session, year 8 proposals – GROUP 2
2:30 - 2:50 pm	Complete LIFE Forms online (10 minutes), year 8 proposals – GROUP 2
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	LIFE Forms Feedback: Discussion (10 minutes), year 8 proposals – GROUP 2
2:50 – 3:00 pm	Break
3:00 – 4:00 pm	IAB informal networking (discussion on joint projects, research topics, misc.)
4:00 pm	Bus leaves Morris Library – to Hampton Inn
5:30 pm	Bus leaves Hampton Inn – to Winery for Dinner
9:00 pm	Bus leaves Winery – return to Hampton Inn

Thursday, May 12, 2016

8:00 - 11:00 am	IAB meeting (closed session) – Morris Library 7 th Floor