



Friday, March 4, 2016

3rd Semi-Annual Industrial Advisory Board Meeting of the NSF I/UCRC iPerform Center
Assistive Technologies to Enhance Human Performance

Hereford Univ. Center, 300 W First St, Arlington, TX 76010

Google Maps: <https://goo.gl/maps/4vKjxAK8PjF2>

Carlisle, Room 235, 2nd Floor - Building Map: <https://goo.gl/x4vLIC>

Primary Parking - F11 Lot - <http://www.uta.edu/maps/?id=276>

Overflow Parking – South Parking Garage - <http://www.uta.edu/maps/?id=439>

**** Please Register for the meeting @ <http://iperform.uta.edu/rsvp.html>**

***** Representatives are recommended to bring their own laptops in order to access the LIFE forms online.**

7:30-8:00a *Participant Registration & Breakfast*

8:00-8:30a *Welcome Remarks*

Fillia Makedon, Center Director & UT Arlington Site Director

Ovidiu Daescu, UT Dallas Site Director

Khosrow Behbehani, Dean of College of Engineering, UT Arlington

Hong Jiang, Chair of Computer Science & Engineering Dept., UT Arlington

8:30-9:00a *Participant Introductions*

9:00-9:45a *Invited Presentation(s) 15min talks*

Robots in Assisted Living Environments: The RADIO Project

Dr. Vangelis Karkaletsis, Research Director, NCSR Demokritos

Evaluating IT Technologies for Targeted Intervention

Dr. James LePage, Chief of Research, Veteran Affairs North Texas Health Care System

The STEM Professional Workforce Preparation Program

Prof. Erick Jones, UTA Savant Center Deputy Director: STEM Professional Workforce Preparation

9:45-10:15a *Presentations by NSF I/UCRC Officers & Center Evaluator*

Dr. Dmitri Perkins, NSF I/UCRC Program Director

Dr. Dee Hoffman, NSF I/UCRC Center Evaluator

10:15-10:30a *Break and Poster Session (15min)*

10:30-12:15p *New Project Proposal Presentations 10min talks with short discussion*

(Note: NEW Project proposals also presented at the POSTER session)**

10:30 – 10:45 *Tools for Internet Privacy and Usable Security*
Prof. Matt Wright

10:45 - 11:00 *Enabling Deep Web Mining on Your Cell Phone*
Prof. Gautam Das

11:00 – 11:15 *ClaimBuster: The Quest to Automate Fact-Checking*
Prof. Chengkai Li

11:15 – 11:30 *Smart Shoes with Embedded Shear and Pressure Sensor*
Prof. Haiying Huang

Wifi Network: <network> Username: <username> Password: <password>

I/UCRC-LIFE Portal: www.iucrc.com

LIFE Portal Password: **iPerformSpring3**



iperform.uta.edu

- 11:30 - 11:45 *Hardware Assisted Secure Data Aggregation and Analysis*
Prof. Murat Kantarcioglu & Prof. Zhiqiang Lin
- 11:45 – 12:00 *Anti-Forensics, Forensics, and Robustness in 3D Video based Applications*
and
Expert Control of Humanoid Robot
Prof. Balakrishnan Prabhakaran
- 12:00 – 12:15 *Cardiovascular Health on the Wrist: Platform for Monitoring Implantables and Vitals*
Prof. Dinesh Bhatia
- 12:15 – 12:30 *Speech and Speaker Variability: Assessing Who, What, Where, and How from Earth to the Moon*
Prof. John Hansen

12:30-1:40p *Lunch Break and Poster Session of Newly Proposed Projects*

1:40-3:20p *Reports on Ongoing Projects TBA (10min talks with discussion)*

- 1:40 – 1:55 *Monitoring & Assessing Human Communication – Leveraging Speech & Language Technology*
Prof. John Hansen
- 1:55 – 2:10 *Framework for Full-Body VR Training Applications*
Prof. Ryan McMahan
- 2:10 – 2:25 *Opinion Summarization for Reviews*
Prof. Yang Liu
- 2:25 – 2:40 *Personalized & Adaptive Interaction Systems*
Prof. Fillia Makedon
- 2:40 – 2:55 *VR for Upper Extremity Rehabilitation*
Prof. Fillia Makedon (UT Arlington)
- 2:55 – 3:10 *Robotic Based Rehabilitation*
Prof. Fillia Makedon
- 3:10 – 3:25 *Effective Test Generation Using Combinatorial Decision Coverage*
Prof. Eric Wong

3:25-3:40p *Break and Poster Session (15min)*

3:40-4:10p *LIFE Form Review & Discussion for IAB Members*

4:10-4:30p *Industry Needs and Feedback on Center Research*

4:30-4:50p *NSF Closed Session with Industry*

4:50-5:00p *Summary & Closing Remarks, Adjourn*



****Note: Additional new project proposals are also presented at the POSTER session.**

List of Posters of Newly Proposed Projects

1. ***Cardiovascular Health on the Wrist: Platform for Monitoring Implantables***
Prof. Dinesh Bhatia
2. ***A Raspberry PI and open-source system for detecting activities of daily living***
Theodoros Giannakopoulos, Georgios Siantikos, Stasinios Konstantopoulos, Dr. Vangelis Karkaletsis
3. ***EyeOn: A Communication System for Activity Monitoring of Seniors with Dementia***
Theodora Toutountzi, Chris Collander, Scott Phan, Dimitrios Zikos, Prof. Fillia Makedon
4. ***Objective Assessment of the Progression of Parkinson's Disease by Analysis of Facial Display***
Najmeh Sadoughi, Prof. Carlos Busso

iPerform Industry Members

- (1) Bosch
- (2) Raytheon
- (3) National Institute of Standards and Technology
- (4) National Center for Scientific Research – Demokritos
- (5) Barrett Technology, Inc.
- (6) Agillaire, Inc.
- (7) Dallas Veteran Affairs Research Corp. (VANTHCS)
- (8) SPEETRA

