Friday, March 4, 2016
3\textsuperscript{rd} 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, 2\textsuperscript{nd} 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
Hardware Assisted Secure Data Aggregation and Analysis
Prof. Murat Kantarcioglu & Prof. Zhiqiang Lin

Anti-Forensics, Forensics, and Robustness in 3D Video based Applications
and
Expert Control of Humanoid Robot
Prof. Balakrishnan Prabhakaran

Cardiovascular Health on the Wrist: Platform for Monitoring Implantables and Vitals
Prof. Dinesh Bhatia

Speech and Speaker Variability: Assessing Who, What, Where, and How from Earth to the Moon
Prof. John Hansen

Lunch Break and Poster Session of Newly Proposed Projects

Reports on Ongoing Projects TBA (10min talks with discussion)

Monitoring & Assessing Human Communication – Leveraging Speech & Language Technology
Prof. John Hansen

Framework for Full-Body VR Training Applications
Prof. Ryan McMahan

Opinion Summarization for Reviews
Prof. Yang Liu

Personalized & Adaptive Interaction Systems
Prof. Fillia Makedon

VR for Upper Extremity Rehabilitation
Prof. Fillia Makedon (UT Arlington)

Robotic Based Rehabilitation
Prof. Fillia Makedon

Effective Test Generation Using Combinatorial Decision Coverage
Prof. Eric Wong

Break and Poster Session (15min)

LIFE Form Review & Discussion for IAB Members

Industry Needs and Feedback on Center Research

NSF Closed Session with Industry

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, Stasinos 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