AGENDA

NSF I/UCRC iPerform Industry Advisory Board Meeting  March 31, 2017
TI Auditorium, ECSS Building, 2.102 @ UT Dallas  8:30 AM – 5:20 PM

8:30 AM – 9:00 AM  Participant Registration and Breakfast

9:00 AM – 9:30 AM  Welcome Remarks and Center Vision
Dr. Ovidiu Daescu  (UT Dallas Site Director)
Dr. Mark Spong  (Dean of Erik Jonsson School of Engineering & Computer Science)
Dr. Fillia Makedon  (Center Director and UT Arlington Site Director)

9:30 AM – 10:00 AM  Participant Introductions

10:00 AM – 10:30 AM  Presentation by NSF Center Evaluator
Dr. Dee Hoffman

10:30 AM – 10:50 AM  Coffee Break

10:50 AM – 12:10 PM  Project Proposals – Round 1  15-minute talk + 5 minutes for Q&A
A. Designing Tactile Guidance Cues for 2D and 3D Computer-Assisted Tool Manipulation
   Dr. Ann Majewicz  (UTD), LIFE Form 1
B. Empowering Non-Programmers to Create Significant Software
   Dr. Christoph Csallner  (UTA), LIFE Form 2
C. Virtual Reality Development Framework
   Dr. Ryan McMahan  (UTD), LIFE Form 3
D. iWork: A Smart Service for Vocational Assessment and Personalized Training and Rehabilitation
   Dr. Fillia Makedon and Mr. Kostas Tsiakas  (UTA), LIFE Form 7
E. Presentation by Dr. Taufiq Hasan of Bosch

12:10 PM – 12:40 PM  Lunch

12:40 PM – 2:00 PM  Project Proposals – Round 2  15-minute talk + 5 minutes for Q&A
F. High-Performance Actuators for Powered Prosthetic Legs
   Dr. Robert Gregg  (UTD), LIFE Form 4
G. Managing Data Growth Efficiently and Reliably in the Big Data Era
   Mr. Zhichao Yan, Dr. Hong Jiang, and Dr. Zhije Huang  (UTA), LIFE Form 5
H. Big Data Project: Building a 200TB Multimodal, Multisensing Human Activity Research Dataset
   Dr. Vassilis Athitsos  (UTA), LIFE Form 6
   Dr. Shouyi Wang  (UTA), LIFE Form 8

2:00 PM – 3:00 PM  Poster Pitches, Poster Session, and Coffee Break
3:00 PM – 4:00 PM  Center Response to Proposed Project Feedback (LIFE Forms)
4:00 PM – 4:45 PM  Industry Tells Us What They’re Interested In
4:45 PM – 5:15 PM  NSF Closed Session and Next Steps Discussion
5:15 PM – 5:20 PM  Closing Remarks
iPerform Industry Members and Collaborators:

Agillaire, Inc.*  
AT&T*  
Barrett^  
Bosch*  
Dallas Veteran Affairs Research Corp. (VANTHCS)*  
Demokritos – National Center for Scientific Research*  
National Institute of Standards and Technology*  
NetApp*  
SPEETRA*  
Texas Instruments*  

* = active member  
^ = research collaboration company

Companies in attendance at iPerform IAB 5:

- Oracle  
- Baylor Scott & White Research Institute  
- Topaz Labs, LLC  
- Texas Workforce Commission  
- SPEETRA  
- Dallas VA Research Coorperation  
- Bosch  
- AT&T  
- City of Dallas  
- Foxconn

Wifi and LIFE Portal Info:

Wifi Network: UTDGuest

Steps to log in:

Open your preferred browser.

You should get to a Terms of User page.  
(If not, enter this link into your browser: https://guestwireless.utdallas.edu)

Enter in the provided username and password.

Click Submit.

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

LIFE Portal Password: IAB5-2017

Representatives are recommended to bring their own laptops in order to access the LIFE forms online.
List of Posters:

1. **MyoLearn – Using a Multimodal Armband Sensor for Vocational Safety Problem Identification**  
   Dylan Ebert (UTA)

2. **Confusion Matrix Reduces Sleep Apnea Confusion**  
   Gautam Das, Amal Isaiah, Ron Mitchell, Saravanan Thirumuruganathan, Habibur Rahman, Sona Hasani, Mary Koone, and Sadia Ahmed (UTA)

3. **A Mobile Powered Knee-Ankle Orthosis for Body-Weight Support**  
   Robert Gregg (UTD)

4. **An Interactive Robot-Based Vocational and Assessment Game using Lego Assembly**  
   Chris Collander, Joseph Tompkins, Alexandros Lioulemes, Ali Sharifara, Michail Theofanidis, and Fillia Makedon (UTA)

5. **VoTrE: A Vocational Training and Evaluation System to Compare Training Approaches for the Workplace**  
   Ashwin RameshBabu, Akilesh Rajavenkatanarayanan, Maher Abujelala, and Fillia Makedon (UTA)

6. **Research on Unconventional Data Deduplication**  
   Zhichao Yan, Hong Jiang, Zhijie Huang, and Stan Skelton (UTA)

7. **Objective Assessment of the Progression of Parkinson’s Disease by Analysis of Facial Displays**  
   Carlos Busso and Najmeh Sadoughi (UTD)

8. **Tracking Long-Term Emotional Behaviors using Speech-Based Interfaces**  
   Srinivas Parthasarathy and Carlos Busso (UTD)

9. **XI-Code: A Family of Practical Lowest Density MDS Array Codes of Distance 4**  
   Zhijie Huang, Hong Jiang, and Stan Skelton (UTA)

10. **Combining Cognitive Assessments with a Virtual Box and Blocks Test**  
    Shawn N. Gieser, Joseph Tompkins, and Fillia Makedon (UTA)

11. **Task Switching Assessment Using the Nao Robot and Box and Blocks**  
    Shawn N. Gieser, Joseph Tompkins, Ali Sharifara, and Fillia Makedon (UTA)

12. **Data Analytics on Healthcare Systems**  
    Feng Liu & Shouyi Wang (UTA)