



Center for Assistive Technologies to Enhance Human Performance



UTA/UTD I/UCRC iPerform Biennial Meeting 2017 [Attend Event](#)

University of Texas at Arlington | Room 228, Engineering Research Building | 500 UTA Blvd |

Arlington, Texas 76019 [View Map](#)

Friday, November 10, 2017 from 8:30 AM to 5:00 PM (CST)

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

08:00 am to 08:30 am	Participant Registration & Breakfast
08:30 am to 09:00 am	<p>Welcome Remarks</p> <p>Fillia Makedon, Center Director & UTA Site Director and Ovidiu Daescu, UTD Site Director Peter Crouch, Dean of College of Engineering, UT Arlington Anand Puppala, Associate Dean of the College of Engineering, UT Arlington Hong Jiang, Chair of Computer Science & Engineering Dept., UT Arlington</p>
09:00 am to 09:20 am	Participants Introductions
09:20 am to 10:00 am	<p>Presentations by NSF I/UCRC Officers and Center Evaluator</p> <p>Dr. Dmitri Perkins, NSF I/UCRC Program Director Dr. Dee Hoffman, NSF I/UCRC Center External Evaluator</p>
10:00 am to 10:15 am	Coffee Break and Networking
10:15 am to 12:05 pm	New Project Proposals (also presented as posters) - 8 min talks
10:15 am to 10:25 am	<p>Sanika Gupta, Prof. Fillia Makedon & Heracleia Human Centered Computing Lab team A Smart Augmented Reality (AR) System to Train Clinicians & Prevent Clinical Accidents</p>
10:25 am to 10:35 am	<p>Prof. Ovidiu Daescu, Ka Teo, UTD Optimal sensor placement for non-invasive brain stimulation</p>
10:35 am to 10:45 am	<p>Prof. Ryan McMahan, UTD VR Information-Security Training for Social Engineering Attacks</p>
10:45 am to 10:55 am	<p>Prof. Shouyi Wang, UTA A Portable EEG-NIRS Integrated BCI System for Brain Activity Monitoring with applications in Gaming and Cognitive Training</p>
10:55 am to 11:05 am	<p>Prof. Ovidiu Daescu, Rashika Mishra, UTD Deep learning for health: a common framework</p>
11:05 am to 11:15 am	<p>Srujana Gattupalli, Reza Ghoddoosian, Alex Dillhoff, Prof. Vassilis Athitsos, UTA Computer Vision Methods for Human Motion Analysis</p>
11:15 am to 11:25 am	<p>Frank Puk, Prof. Shouyi Wang, UTA A Brain Computer Interface System for Neuro-Feedback Emotion Management to prevent Domestic Violence</p>
11:25 am to 11:35 am	<p>Zhichao Yan, Prof. Hong Jiang, UTA An integrated approach to image deduplication</p>

11:35 am to 11:45 am	Sadia Ahmed & Mary Koone- Prof. Gautam Das, UTA Application of Machine Learning in Obstructive Sleep Apnea Prediction
11:45 am to 11:55 am	Prof. Ryan McMahan & Zygmunt Haas , UTD Smart streaming of 360-degree videos for improved virtual reality experience
11:55 am to 12:05 pm	Prof. Ann Majewicz - UTD Human-Centric Modeling and Adaptive Control for Robot-Assisted Motor Tasks
12:05 pm to 01:00 pm	Lunch Break
01:00 pm to 01:45 pm	Poster Session of all Projects
01:45 pm to 02:50 pm	Reports on Ongoing Project Presentations (8 min talks)
01:45 am to 01:55 pm	Prof. John Hansen & Prof. Taufiq Hasan, UTD Acoustic Scene Classification for Context Aware Human Computer Interaction
01:55 pm to 02:05 pm	Prof. John Hansen, UTD Automatic Human Communication Assessment under-determined Systems
02:05 pm to 02:15 pm	Zhijie Huang, Prof. Hong Jiang, UTA Efficient MDS Array Codes for Enhancing Reliability of Large-scale Storage Systems
02:15 pm to 02:25 pm	Sona Hasani & Jeas Augustine – Prof. Gautam Das, UTA Minimizing the Distance from a Prior in Large-scale Sparse Binary
02:25 pm to 02:35 pm	Linghuan Hu, Prof Eric Wong ,UTD Graph-Based Testing Methodology for IoT Systems
02:35 pm to 02:45 pm	Kostas Tsiakas, Michalis Papakostas, Maher Abujelala, Prof. Fillia Makedon, UTA A Smart Assessment & Personalized Vocational Training System to Enhance Performance and Safety in the Factory of the Future, Industry 4.0
02:50 pm to 03:10 pm	Coffee Break
03:10 pm to 03:40 pm	LIFE Form Review & Discussion for IAB Members
03:40 pm to 04:20 pm	Industry Needs and Feedback on Center Research
04:20 pm to 04:55 pm	NSF Closed Session with Industry
04:55 pm to 05:00 pm	Summary & Closing Remarks, Adjourn

****Note: Additional NEW Project proposals are presented at the POSTER session.**

IPerform Center Industry Members

- Bosch
- AT&T
- National Institute of Standards and Technology (NIST)
- National Center for Scientific Research – NCSR- Demokritos
- Dallas Veteran Affairs Research Corp. (VANTHCS)
- NetApp
- Speetra