

November 5, 2016 (Saturday)

Technical Paper Oral Presentation

Session #1: 10:30am - 12:30pm (MIT Stata Center)

MACHINE LEARNING AND CLOUD COMPUTING

10:30am	Zheyuan Shi	Strategic Reporting in Exponential Family Prediction Markets
10:50am	Christina Tsangouri	An Interactive Facial-Expression Training Platform for Individuals with Autism Spectrum Disorder
11:10am	George G. Boateng	StressAware: An App for Real-Time Stress Monitoring on the Amulet Wearable Platform
11:30am	Monica Kumaran	Lightweight Malware Detection based on Machine Learning Algorithms and the Android Manifest File
11:50am	Renee Meinhold	Efficiently Computing Piecewise Flat Embeddings for Data Clustering and Image Segmentation
12:10pm	Anisha Nakagawa	Hurricane Evacuation Traffic Model

BIOLOGICAL AND BIOMEDICAL ENGINEERING AND TECHNOLOGY

10:30am	Sarah Agnalt	Vein Detection using Vein Transillumination and Contrast Differentiation for Practitioner Aid
10:50am	Suma Anand	Drive field filter design for Magnetic Particle Imaging (MPI) apparatus
11:10am	Katarina Stevanovic	Synchrotron Imaging of Intact Honeybees Affected by Nosema
11:30am	Daniel Caraballo	Affordable Photolithography with Biomedical Applications
11:50am	Holly Nguyen	Personalizing a Sleep Health App for College Students Using Personality Traits and Chronotype
12:10pm	Joseph Majeski, Kevin Lynch	Lung Cancer Tissue Samples Discrimination through Statistical Analysis of Polarimetric Angular-Resolved Diffuse Measurements

COMMUNICATIONS AND SECURITY

10:30am	Somtochukwu Okwuosah	Multi-Communication Type Debugging Probe
10:50am	Yilan Zhu	Simulation Model on Chaotic Asynchronous Transmitter and Receiver
11:10am	Maxwell Yun	Thermal Energy Harvesting for Self-Powered Smart Home Sensors
11:30am	Khai Phan	Security Assessment of Audience Response Systems Using Software Defined Radios
11:50am	Blake Hewgill	Performance of a Highly Configurable Channel Emulator
12:10pm	Sarah Lam	Wireless Infrastructure Enhances On Body Health Monitoring Systems



November 5, 2016 (Saturday)
Technical Paper Oral Presentation
Session #2: 1:30pm - 3:30pm (MIT Stata Center)

MACHINE LEARNING AND CLOUD COMPUTING

1:30pm	Christopher Liao	Workload Characterization of the Shared/Buy-in Computing Cluster at Boston University
1:50pm	Khaled K. Saab	Estimation of Cluster Centroids in Presence of Noisy Observations
2:10pm	Avi Cooper, Poojit Hedge	An Indoor Positioning System Facilitated by Computer Vision
2:30pm	Connor Sell	Some Exact Solutions to Non-Negative Matrix Factorization
2:50pm	Nick Anthony	Limited Precision Deep Neural Networks

WEARABLE TECHNOLOGY

1:30pm	GuiHui Liu	Smartphone Enabled Telerehabilitative Wearable Glove for Stroke Patients
1:50pm	Dan Lin	A Test Bed for Detecting and Mimicking Finger Joint Bending
2:10pm	Lauren Plant	Smart E-Textile Gloves for Quantified Measurements in Movement Disorders
2:30pm	Matthew Constant	Smartwatch-driven Multisensory Recorder
2:50pm	Brian Goldwyn	HealthVisor: A Look into Data-rich Bio-monitoring
3:10pm	Rabeeh Majidi	Smart Adaptive Boot for Ankle Instability Treatment

ROBOTICS AND AUTOMATION TECHNOLOGY

1:30pm	Yeeho Song	Compliant Leg Designs for Attenuating Impact of Airdrop Landing of Quadruped Robots
1:50pm	Alberto Rivera	A Generalized Solution to The Coverage Problem in Swarm Robotics
2:10pm	Wesley Caruso	Development of Low Cost Device for In-Situ Algae Monitoring
2:30pm	Charles Thangaraj	A Scalable Modular Heterogeneous System for Home and Office Automation
2:50pm	Mingchen Li	Experimental Validation of Diffusion Coefficient Identification Using a Multi-Robot System

