IEEE Cleveland Section

IEEE Control Systems Society, and HKN Epsilon Alpha Chapter at Cleveland State University Jointly present

Flexible Control of Paralyzed Human Arms with Machine Leaning

Dr. Eric Schearer

Date and time
Friday, Nov. 13, 2015.
3:00pm-5:00pm

Location
Fenn Hall 103
College of Engineering
Cleveland State University
2121 Euclid Ave.
Cleveland, OH 44115

Agenda
3:00-3:30: social hour
3:30-4:30: seminar
4:30-5:00: Q&A

Who is invited?
Anyone interested in attending
Priority will be given to members of IEEE.

CPD
One credit available
Bring your flyer for credit.

Dr. Eric Schearer is an Assistant Professor of Mechanical Engineering (ME) at Cleveland State University (CSU). He earned a B.S. in ME from the University of Notre Dame, an M.S. in Robotics from Carnegie Mellon University, and a Ph.D. in ME from Northwestern University. He served as an Air Force officer and worked as a consultant before he joined CSU.

Abstract of the seminar: Functional Electrical Stimulation (FES) is a promising technology for restoring lost function to people with high spinal cord injuries. Controlling a paralyzed human arm with FES is a daunting task because the neuromuscular system is complex and constantly changing, and the tasks performed by the arm are varied and performed in a dynamic environment. Machine learning has begun to show promise in solving some of these flexible control problems for robots. This presentation focuses on the use of machine learning for flexible control of paralyzed human arms.

Refreshment and soft drink will be provided!

RSVP: Dr. Lili Dong • L.Dong34@csuohio.edu • 216-687-5312

This is to certify that _____ attended this seminar. Certified by _____. Certificates of attendance and other evidence of CPD activity should be retained by the attendee for auditing purposes.