INVITED SPEAKER SEMINAR
IN ELECTRICAL AND COMPUTER ENGINEERING

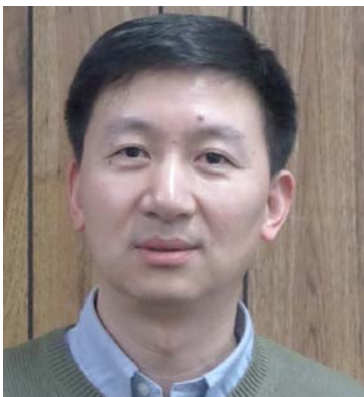Tuesday, September 4, 2018
6:00 p.m. – 7:30 p.m.
Room EV002.184

"Full Radio Spectrum Awareness Using Machine Learning and Deep Learning"

Prof. Yu-Dong Yao

Department of Electrical and Computer Engineering

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ABSTRACT

Deep learning (DL) is a new machine learning (ML) methodology that has found successful implementations in many application domains. This presentation discusses research results in the use of ML and DL in radio spectrum activity identification, modulation classification, medium access protocol classification, and wireless service identification.

BIOGRAPHY

Dr. Yu-Dong Yao has been a professor at Stevens Institute of Technology, New Jersey, since 2000. He served as a department chair of electrical and computer engineering from 2007 to 2018. He is currently a director of Stevens' Wireless Information Systems Engineering Laboratory (WISELAB). Dr. Yao was with Carleton University (Ottawa) and Spar Aerospace (Montreal) from 1987 to 1994. His research interests include wireless communications, cognitive radio, machine learning, and deep learning. He holds thirteen U.S. patents. He was elected a Fellow of IEEE (2011), National Academy of Inventors (2015), and Canadian Academy of Engineering (2017).

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