

# EECS Graduate Seminar

## Presentation

### Wireless Sensor Networks

By

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#### **Abstract**

Wireless sensor networks are poised to facilitate monitoring and control at a scale and depth that was never feasible. Thanks to enabling technologies including miniaturization through nanotechnology, MEMS, and others, we can now observe, monitor, sense, detect, and control changes in physical world at unprecedented levels, resolution, and granularity. Design, deployment, maintenance, and operation of wireless sensor networks present unique challenges (and opportunities) in the way of managing the energy needed to keep these systems functional. This talk provides a comprehensive introduction to wireless sensor networks, covering all the main aspects from fundamentals to real-world applications.

#### **Biography**

Dr. Serpen received his PhD in Electrical Engineering from Old Dominion University in 1992. He has been with the EECS department as a faculty member since 1993. Dr. Serpen contributed to 50+ publications in the area of artificial intelligence (machine learning, neural networks, knowledge-based systems, and data mining) and its applications. He is currently the director of the artificial intelligence laboratory.