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EE 500 GRADUATE COLLOQUIUM

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You are cordially invited to

"Big Data; what it is and why it matters to EE"

By

Dr. Stephen Fast

Cyber Innovation Strategy

Pennsylvania State University Applied Research Laboratory

Date: February 6, 2014

Time: 4:00 pm

Location: 160 Willard Bldg

Abstract

Unbeknownst to most people, Google, Facebook, Amazon, and other leading high tech companies' business relies on exploiting massive amounts of data rapidly. While these companies are driving the use and storage paradigms for big data, big data has been found to be extraordinarily useful for business planning and marketing, manufacturing, health and human services, disease epidemic prevention, genome research, data fusion from sensor data, and cybersecurity. This talk will discuss how big data differs from traditional data, how it is typically stored and accessed, the underlying logic calculus used for deductive and inductive reasoning, and some promising approaches for future analytics.

Biography

Over his 25 years career in research and development, Dr Fast has led numerous teams in various Research and Development efforts focusing primarily on Radio Frequency Propagation. He has been Principle investigator on more than 20 projects with sponsor in the Navy, Marines, Army, Air Force, JIEDDO, and DARPA. Further, as a respected authority in RF propagation, Dr. Fast has served as advisory counsel for the FCC and an NSA/DARPA panel. Additionally Dr. Fast has served in the US Army Signal Corps, as President of Remcom, Inc. and Sales Manager at GDSACOM. Currently Dr. Fast serves as the lead in Cyber Innovation Strategy at The Pennsylvania State University Applied Research Laboratory and studies big data and cybersecurity.