

NAVAL SCIENCE AND TECHNOLOGY

ENGR 3109: Navy STEM Professional Development Seminar

Wednesday, October 23, 2019

5:00 pm to 6:00 pm

URI – Livestreaming to UConn

“HEY SIRI ... WHERE ARE THE ENEMY SHIPS? THE NAVY’S INTEREST IN BIG DATA”

DESCRIPTION: Big data is a 130 billion dollar industry. It promises to drive our cars, order our groceries and maybe even fight our wars. Eighty five percent of big data analytic projects fail, yet the US military desperately wants this technology incorporated in its systems. Can computers autonomously operate our weapons effectively? Can machine learning algorithms predict hostile military actions? Can data mining of benign sources combine to generate sensitive military intelligence? Military budget makers say yes, but some ethicists and critics of the technology hope the answer is no. This brief will review both successful and failed big data projects and discuss the implications for military use. It will review Navy Artificial Intelligence focus areas and discuss ethical issues associated with big data.

WILLIAM J. MATUSZAK, VICE PRESIDENT IN-DEPTH ENGINEERING, MIDDLETOWN, RI

Mr. Matuszak researches artificial intelligence and machine learning as the Principal investigator for multiple big data research projects at In-Depth Engineering. His 30 year career includes software development, system design and R&D for customers that include the US Navy and the NSA. During his career he has led over 20 research contracts including Small business Innovative Research (SBIR), Small business technology transfer (STTR), Broad Agency Announcements (BAA), and STAC grants. He has published papers on Data Fusion and Data Visualization and presented his findings at conferences in the United States and Europe. He served as the Navy Chief Engineer (CHENG) for 3 sonar systems while working for the Naval Undersea Warfare Center. Mr. Matuszak has a MS in electrical Engineering from Rensselaer Polytechnic Institute and a BS in Electrical Engineering from university of Buffalo

Upcoming Distinguished Seminars



Peter Legnos

President & Founder
LBI, INC.

OCTOBER 30TH @ 5PM
UConn – ITE 336



Bruce Abraham

CTO & Vice-President
APPLIED PHYSICAL
SCIENCES CORP (APS)

NOVEMBER 6TH @ 5PM
UConn – ITE 336



David Bamford

NUWC

NOVEMBER 13TH @ 5PM
URI – Avedisian Hall 240



Steve Link

Director, Seabed
Systems Group
THAYERMAHAN

NOVEMBER 20TH @ 5PM
UConn – ITE 336

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