



CSULB Systems Council Chapter presents
IEEE Distinguished Lecture Series on

System for Local/Regional/Global Joined Object Recognition

Dr. Paul Hershey

Date: Thursday, April 30, 2015

Time: 12:15 to 2:15 p.m.*

Location: VEC 325, California State University, Long Beach

***Lunch will be served from 11:45 a.m. to 12:15 pm**

Abstract:

Mission critical systems for search and rescue require technologies that provide timely identification and geo-location of objects within these vast geographic areas. Even though there are large quantities of Intelligence, Surveillance, Reconnaissance (ISR) data available from sensors on collection platforms, analysts cannot keep pace with the growing amount of sensor data. No tool exists today that funnels that data into the location and recognition information that overcomes these limitations and meets mission critical requirements. This presentation introduces a system, called MiData (Multifactor Information Distributed Analytics Technology Aide) Application to Local / Regional / Global Joined Object Recognition (MAJOR), to meet this need. MAJOR applies sensors and analytics technology in a new way to create a novel capability to rapidly screen massive collections of sensor images (still and video) from multiple and diverse databases in order to chip out and fuse Essential Elements of Information (EEIs) that will transform raw data into actionable information from which analysts can locate lost objects in arbitrary geographic locations in a timely manner. The presentation discusses related works, the MAJOR approach and first realization, and preliminary results from that realization.

About Speaker:

Dr. Hershey is Senior Engineering Fellow (with honors) at Raytheon where he is responsible for creating and delivering innovation solutions targeted towards critical customer issues. Presently, he is serving as Chief Engineer for the Integrated Fires Command and Control program and Principle Investigator for the Distributed Common Ground System Mission Analytics program. Dr. Hershey is also an adjunct professor at George Washington University where he serves on the Curriculum Advisory Board. His research focuses on data analytics, autonomous systems, cloud computing, and cyber security. He has published 28 patents (issued), 11 additional patents (filed), and 48 peer-reviewed technical articles. Dr. Hershey holds a Ph.D. and M.S., both in electrical engineering, from the University of Maryland, College Park, and an A.B. in mathematics from the College of William and Mary.

For more information, please contact IEEE chapter's secretary, Dr. Shadnaz Asgari at Shadnaz.Asgari@csulb.edu.