UTC INSTITUTE FOR ADVANCED SYSTEMS ENGINEERING

SEMINAR SERIES

Monday May 22nd, 2017
1:00 - 2:00PM
UConn, Storrs Campus – ITEB 336
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Smart Manufacturing: The Practice of Real Time Data and Manufacturing Intelligence

Manufacturing is an industry that needs to make data a key asset, change how manufacturing is structured and adopt next generation IT and technologies for future manufacturing competitiveness. It is in what way, at what speed, and how well the data and next generation IT are applied that will impact the future of individual manufacturers and their supply chains. Smart Manufacturing (SM) is a practice. From a business standpoint, it is the opportunity-based and business oriented practice of end-to-end use of real-time, networked, data based intelligence for enterprise integration of dynamic market demands, high precision/qualified products, and enterprise and ecosystem optimization. From a technical standpoint, SM is the practice of applying advanced sensors, controls, platforms and modeling not only as advanced technologies but as integrated operations and information (OT/IT) technology systems. As a practice, SM achieves increased economic, energy, and material productivity, zero incidents, reduced industry energy usage, and environmental sustainability. The Clean Energy Smart Manufacturing Innovation Institute (CESMII) is the 9th U.S. institute under the White House-led "Manufacturing USA" initiative. The Public Private Partnership focuses on accelerating the transformational use of data, the extensive application of enterprise manufacturing intelligence, the provider and practitioner market changes and the adoption of advanced sensors, data analytics and controls to radically improve the precision, performance and efficiency of U.S. advanced manufacturing.

Jim Davis

Jim co-founded the Smart Manufacturing Leadership Coalition (SMLC) that was recently selected to lead DOE's Clean Energy Smart Manufacturing Innovation Institute (CESMII), the 9th Manufacturing USA Institute and the 3rd DOE institute to be awarded.

Jim is Vice Provost, IT and CTO at UCLA with broad responsibilities focused on the investment and deployment of information technology in the university's academic research, education, and public service mission. He has accountability for university-wide planning and strategic investment in computational research, research informatics, educational technologies, mobility applications, research and education data strategies, privacy/security and internal and external community partnerships. Jim oversees UCLA's Institute for Digital Research and Education (IDRE).

Jim is also on UCLA's Department of Chemical and Biomolecular Engineering where he has done research and consulted extensively on AI, machine learning, intelligent systems, monitoring and control, and data/modeling systems across diverse industries including chemicals, refining, paper, packaging, metals and glass. Jim has work experience with Amoco Chemicals.

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