NATIONAL ACADEMIES Sciences Engineering Medicine

Foundational Research Gaps and Future Directions for Digital Twins

Meeting Agenda: 04/24/23

To connect:

- Phone one-tap:
  US: +13017158592,,92813860452# or +16465588656,,92813860452#
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- Meeting URL:
  https://nasem.zoom.us/j/92813860452?pwd=U2VmWkkzMmwzdEc2bnBFYTlmZmpQUT09

April 24, 2023

OPEN

10:00 a.m. **Housekeeping**
Karen Willcox

10:00 a.m. **Philip Huff Presentation**

10:15 a.m. **Q&A for Philip Huff**

10:45 a.m. **Alberto Ferrari Presentation**

11:00 a.m. **Q&A for Alberto Ferrari**

CLOSED

11:30 a.m. - 12:30 p.m.

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SPEAKER BIOGRAPHIES

Philip Huff is an Assistant Professor in the Computer Science department at UA Little Rock and Director of Cybersecurity Research at the Emerging Analytics Center He has a 15-year history of cybersecurity management in the electric sector and is the co-founder of Bastazo, a company specializing in cybersecurity AI for the electric sector. While at UA Little Rock, he has developed multiple degree and certificate programs in cybersecurity and directs the Department of Energy Emerging Threat Information Sharing and Analysis Center (ET-ISAC) and NSA National Cyber Teaching Academy. He is also a CISSP.

Alberto Ferrari is Senior Director of the Model Based Digital Thread Center of Expertise (COE), a new organization at United Technologies, Co. (UTC) under CTO Paul Eremenko. The COE is focused on accelerating the development and adoption of model-based technology for product design and verification across all business units. Prior to this role, Alberto was the co-founder and director of the innovation company ALES s.r.l. that was acquired by UTC in 2012 and integrated into United Technologies Research Center (UTRC), in 2015. In addition to day-to-day operations, Alberto acted as the general manager and technical lead for model-based technology for UTRC. Alberto's passion lies in development and deployment of new methods and tools for the design and verification of cyber-physical systems. He is the author of several technical journal articles and conference papers on design tools and methodologies for embedded systems, safety-critical embedded controllers, and hybrid systems. He has taught courses on network and embedded systems for more than 10 years at the University La Sapienza (Roma) and University of Ancona, Italy, where he also advises masters and Ph.D. students. Alberto received his master's degree and Ph.D. in electrical engineering and computer science at the University of Bologna, Italy.