March 6–8, 2018

Integrating Machine Learning and Predictive Simulation: From Uncertainty Quantification to Digital Twins

**DESCRIPTION**

This workshop explores the synergy between the worlds of physics-based simulations and machine learning, creating a forum for experts and scientists from industry and academia. Among the topics addressed in the workshop are uncertainty quantification, surrogate-based optimization, and digital twins, which integrate simulation models and machine learning with data to create living digital simulation models that update and change as their physical counterparts change.

**ORGANIZERS**

Dirk Hartmann, Siemens
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**SPEAKERS**

Karthik Duraisamy, University of Michigan
Garrett Goh, Pacific Northwest National Laboratory
Benyamin Grosman, Medtronic
Adam Himes, Medtronic
Lior Horesh, IBM
David Knezevic, Akselos
Michael Miller, Johns Hopkins University
Drew Pruett, University of Mississippi
Tuhin Sahai, United Technologies Corporation
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More information is available at www.ima.umn.edu/2017-2018/SW3.6-8.18