



Journal of Mechanical Design

JMD WEBINAR

Announcement of the First Thematic Session (Data-driven Approaches for Engineering Design)

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The **JMD Webinar** is a series of webinars organized quarterly by the editorial board of the [ASME Journal of Mechanical Design](#) (JMD), serving the engineering design research community. Our intention is to share the latest research published in the journal, and by doing so, to keep our community connected.

Each JMD webinar will include two sessions: (1) a **90-minute Zoom webinar session** in which 4-5 selected papers will be featured with presentations and Q&As, and (2) an optional **30-minute gather.town session** for further discussion/networking among speakers and seminar attendees.

For more information, visit the [JMD Webinar site](#)
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First Thematic Session of the JMD Webinar

Theme: Data-driven Approaches for Engineering Design

Date and Time: February 16, 2021, 12:00 PM – 2:00 PM EST (US Eastern Standard Time)

Five Featured Talks:

Dr. Namwoo Kang

Oh, S., Jung, Y., Kim, S., Lee, I., and Kang, N. "[Deep Generative Design: Integration of Topology Optimization and Generative Models](#)." J. Mech. Des. 2019; 141(11): 111405

Dr. Soumalya Sarkar

Sarkar, S., Mondal, S., Joly, M., Lynch, M. E., Bopardikar, S. D., Acharya, R., and Perdikaris, P. "[Multifidelity and Multiscale Bayesian Framework for High-Dimensional Engineering Design and Calibration](#)." J. Mech. Des. 2019; 141(12): 121001

Dr. Yan Wang

Liu, D., and Wang, Y. "[Multi-Fidelity Physics-Constrained Neural Network and Its Application in Materials Modeling](#)." J. Mech. Des. 2019; 141(12): 121403

Dr. Ramin Bostanabad

Bostanabad, R., Chan, Y., Wang, L., Zhu, P., and Chen, W. "[Globally Approximate Gaussian Processes for Big Data with Application to Data-Driven Metamaterials Design](#)." J. Mech. Des. 2019; 141(11): 111402

Dr. Conrad Tucker

Shu, D., Cunningham, J., Stump, G., Miller, S. W., Yukish, M. A., Simpson, T. W., and Tucker, C. S. "[3D Design Using Generative Adversarial Networks and Physics-Based Validation](#)." ASME. J. Mech. Des. July 2020; 142(7): 071701

First Webinar Organizing Team

Chris Hoyle, Oregon State University, U.S.

Faez Ahmed, Massachusetts Institute of Technology, U.S.

Pingfeng Wang, University of Illinois at Urbana-Champaign, U.S.

Scott Ferguson, NC State University, U.S.