



SIERA Group 2020 Seminar Series – Seminar No. 27

Wednesday, November 4, 2020 @ 5:30pm Pacific Time (PST)

Structural Health Monitoring: from Sensors to Decisions

Invited Keynote, organized by the [IC-IMPACTS](#) Student Engagement Committee



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Fae Azhari is an Assistant Professor in the Departments of Mechanical & Industrial Engineering and Civil & Mineral Engineering at the University of Toronto. She completed her PhD in Structural Engineering and Mechanics at UC Davis and holds two master's degrees, one in Industrial Engineering and Operations Research from UC Berkeley and the other in Civil Engineering from UBC. She is a registered Professional Engineer with five years of industry experience. Fae's research focuses on structural health monitoring (SHM) and prognosis of engineering systems. Her main areas of research are (I) sensor development and assessing the performance of novel sensing devices, and (II) developing decision-making frameworks that use probabilistic models to translate collected data into meaningful information and efficient remedial strategies for various engineering systems.

Abstract: Structural Health Monitoring (SHM) involves the implementation of continuous, real-time, and automatic fault detection strategies for timely and condition-based maintenance of engineering structures. SHM is now an integral part of engineering practice and involves the process of sensor development and installation, data acquisition and processing, condition diagnosis/prognosis, and decision making. Following a brief history of SHM and its impact on resilience and sustainability, this talk will describe the key components of SHM systems, damage identification techniques, and probabilistic decision-making methodologies. An overview of a broad range of SHM projects will conclude the presentation.

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