

GEOHAZARD EARLY WARNING & PREDICTION USING EMERGING MONITORING INTEGRATED WITH AI: BRIDGE SCOUR CASE STUDIES

THURSDAY, OCTOBER 24 | 4–5 PM | ZOOM

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EARLY REG ENDS OCTOBER 10

Dr. Negin Yousefpour will discuss:

How and why AI is a breakthrough for infrastructure maintenance and monitoring against geohazards

Application of AI and real-time monitoring for bridge scour management: case studies in Alaska and Oregon

NET PROCEEDS BENEFIT STUDENT DEVELOPMENT



**DR. NEGIN YOUSEFPOUR
SENIOR LECTURER
UNIVERSITY OF MELBOURNE**

Dr Negin Yousefpour is a senior lecturer in the Infrastructure Engineering Department, specialized in data-driven and computational geotechnics. She joined the University of Melbourne winning the Doreen Thomas Fellow in 2020, and since then she has been leading collaborative, interdisciplinary research on computational geotechnics, applied AI/ML and data-driven methods, reliability and probabilistic analysis, geo-structural simulations for extreme events and advanced soil-structure interaction analysis. Negin's research is applied and in close collaboration with industry and she is also active in consulting industry projects. Previously, Negin spent more than eight years in industry working with Arup on cutting-edge projects in the US, UK, Europe, and Australia. She has been involved in technical developments, leadership, and delivery of a wide range of projects in advanced technology and research, infrastructures, building, energy, and digital engineering sectors. Negin received her Bachelor's in Civil Engineering from Iran University of Science and Technology and her Master's from Sharif University where she worked on an extensive laboratory investigation of dynamic properties of asphalt concrete as the core of earth dams. Negin received her PhD in Geotechnical Engineering from Texas A&M University in 2013, where her research focused on computational geotechnics, predictive modeling with AI/ML, and Bayesian probabilistic and stochastic methods.