

Data in Geotechnical Engineering: beyond conventional methods and design

A half day seminar at Imperial College

1:15 – 4:30 pm, 13th March 2024, followed by Rankine lecture at 5:30pm

Chair:

Prof. Catherine O’Sullivan, Imperial College London

Session 1		1:15 – 2:35
Navigating challenges to ensure reliable geo-solutions in the data-driven generation	Suzanne Lacasse <i>Norwegian Geotechnical Institute, Norway</i>	1:15 – 1:35
Global pile driving model calibration with Bayesian inference	Thomas Vergote <i>DEME Group, Belgium</i>	1:35 – 1:55
How can AI and ML replace the geotechnical engineer?	Ronald Brinkgreve <i>Delft University of Technology, The Netherlands & Seequent – the Bentley Subsurface Company</i>	1:55 – 2:15
Discussion moderated by David M G Taborda, <i>Imperial College London, UK</i>		2:15 – 2:35
Coffee break		2:35 – 3:10
Session 2		3:10 – 4:30
Integrating surrogate modelling into the design and construction of urban excavations	Agustín Ruiz López <i>Imperial College London, UK</i>	3:10 – 3:30
Back analysis in the observational method: bringing together instrumentation and modelling in deep excavations	Antonio Cañavate-Grimal <i>Arup, UK</i>	3:30 – 3:50
Automated reconstruction of digital twins for underground infrastructure	Jelena Ninic <i>University of Birmingham, UK</i>	3:50 – 4:10
Discussion moderated by David M G Taborda, <i>Imperial College London, UK</i>		4:10 – 4:30

Venue:

Imperial College London, Department of Civil & Environmental Engineering
Skempton Building, London SW7 2BU

Main room:

LT 164 – ground floor, Skempton Building

Overflow room:

LT 201 – first floor, Skempton Building