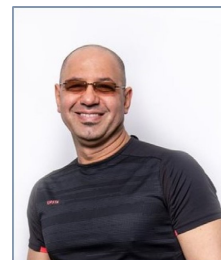


Ahmad Mousa
Department of Civil Engineering
Natural Resources and Environment Research Group
Email: Ahmad.Mousa@nottingham.edu.cn



Qualifications

Registered Professional Engineering - State of California, Board of Engineers and Land surveyors - State of California
Award Date: 15 Feb 2009

PhD, New laboratory test procedure for the enhanced calibration of constitutive models, Georgia Institute of Technology
Award Date: 6 May 2006

Master, Evaluation of pullout capacity of reinforced Ottawa sand under drained and undrained conditions, Purdue University
Award Date: 4 Aug 2000

Master, Numerical assessment of the effects of grout characteristics on settlement measurements in borehole extensometers, American University in Cairo
Award Date: 1 Jun 1999

Employment

Department of Civil Engineering

Faculty of Science and Engineering
29 Aug 2022 → present

Natural Resources and Environment Research Group

29 Aug 2022 → present

Adjunct Professor

Monash University Malaysia
Malaysia
1 Aug 2022 → 1 Aug 2024

Visiting Scholar - McGill University

1 Nov 2015 → 1 May 2016

Senior Lecturer

Monash University Malaysia
Malaysia
1 Sept 2014 → 1 Aug 2022

Lecturer

German University in Cairo
Egypt
1 Aug 2012 → 1 Aug 2014

Research outputs

A new large-scale shear apparatus for testing geosynthetics-soil interfaces incorporating thermal condition

Chao, Z., Fowmes, G., Mousa, A., Zhou, J., Zhao, Z., Zheng, J. & Shi, D., Oct 2024, In: Geotextiles and Geomembranes. 52, 5, p. 999-1010

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Enhancing Pavement Sustainability: Prediction of the Pavement Condition Index in Arid Urban Climates Using the International Roughness Index

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Value-engineering methodology for the selection of an optimal bridge system

Mousa, A. A., Hussein, M. & Kineber, A., 1 Apr 2022, In: Transportation Research Record. 2676, 4, p. 483-498

Internal Instability in Soils: A Critical Review of the Fundamentals and Ramifications

Dassanayake, S. M., Mousa, A. A., Ilankoon, S. & Fowmes, G. J., Apr 2022, *Transportation Research Record*. 4 ed. SAGE Publications Ltd, Vol. 2676. p. 1-26 26 p.

Value-Engineering Methodology for the Selection of an Optimal Bridge System

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Voids distribution of pavement filters subjected to permeating fines: A coupled DEM-statistical inference
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A novel damage index for online monitoring of RC slabs under monotonic loading by integration of process controlling into acoustic emission technique
Behnia, A., Chai, H. K., Mousa, A. & Ravanfar, S. A., Mar 2019, In: Mechanical Systems and Signal Processing. 119, p. 547-560 14 p.

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On the effects of animal burrows on the performance of homogeneous earthen structures
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On the evaluation of settlement measurements using borehole extensometers
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Press/Media

Impacts

Rehabilitating Bridges with Lightweight Concrete
Mousa, A. (Participant)

Student theses