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Qualifications

Doctoral degree, Engineering and Technology, Aalto University
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Licentiate degree, Engineering and Technology, Helsinki University of Technology
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Master's degree, Engineering and Technology, Helsinki University of Technology
Award Date: 16 Dec 1996

Employment

Staff Scientist

Staff Scientist
Department of Civil Engineering
Aalto University
1 Jun 2016 → present

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Mineral Based Materials and Mechanics
Aalto University
1 Jan 2019 → present

Research output

Determining the Location of Steel Reinforcement in Thick Concrete Walls by Non-Destructive Inspection

Al-Neshawy, F. & Puttonen, J., 1 Dec 2023, In: Nordic Concrete Research. 69, 2, p. 55-71 17 p.

Investigation of the Internal Structure of Hardened 3D-Printed Concrete by X-CT Scanning and Its Influence on the Mechanical Performance

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Assessment procedure of determining compressive strength of hardened reinforced concrete structures

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Combined NDT methods to determine the variations in compressive strength throughout concrete structures

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Reduction of CO₂ Emission by Using Low Carbon Concretes with Accelerating Admixtures

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The Effect of Heat Curing on the Early-Strength Development of Low-Carbon Concrete

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Using non-destructive testing methods for locating the steel reinforcement in reinforced concrete structures

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Stability of Air Content in Fresh Concretes with PCE-Based Superplasticizers

Al-Neshawy, F., Ojala, T. & Punkki, J., Jul 2019, In: *Nordic Concrete Research*. 60, 1, p. 145-158 14 p.

Betonin koostumuksen vaikutus sen tiivistävyyteen: Raportti tilaustutkimusprojektista

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Increase of Air Content of Concrete After Mixing

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Influence of PCE-Superplasticizers on the Stability of Concrete Air Content

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Implementation of a Contour Crafting System to a 3-Dimensional Concrete Printer

Nylund, J., Järf, A., Kekäle, K., Rönnskog, J., Al-Neshawy, F., Kiviluoma, P. & Kuosmanen, P., 2015, *10th International DAAAM Baltic Conference "INDUSTRIAL ENGINEERING", 12 - 13th May 2015, Tallinn, ESTONIA*. Otto, T. (ed.). Tallinn: Tallinn University of Technology, p. 168-173

Optimized neural network based carbonation prediction model

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Developing a Computerized Aging Management System for Concrete Structures in Finnish Nuclear Power Plants

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Development of database for the in-service inspection of the concrete structures of the Finnish Nuclear Power Plants

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Monitoring, Evaluation and Long-term Forecasting of Hygrothermal Performance of Thick-walled Concrete Structure

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Detecting the Deterioration of Building Facades Using Terrestrial Laser Scanning Technique

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Ice Formation and Pore Water Redistribution During 2-Cycle Freezing and Thawing of Concrete Mortars

Penttala, V. & Al-Neshawy, F., 2002, *Frost Damage in Concrete, Minneapolis, USA 28-30 June 1999*. Janssen, D. J., Setzer, M. J. & Snyder, M. B. (eds.). France: RILEM - International Union of Laboratories and Experts in Construction Materials, Systems and Structures, p. 115-126 (RILEM Proceedings; no. PRO 25).

Stress and strain state of concrete during freezing and thawing cycles

Penttala, V. & Al-Neshawy, F., 2002, In: *Cement and Concrete Research*. 32, 9, p. 1407-1420

Sementtimäärällä ja vesisementtisuhteella merkittävä vaikutus betonin kuivumisnopeuteen

Al-Neshawy, F., 1997, In: *Rnet*. 1, p. 51

Activities

Ernst Niederleithinger

Fahim Al-Neshawy (Host)
24 Oct 2018 → 26 Oct 2018

NDT&E Advanced Training Workshop

Fahim Al-Neshawy (Member)
27 Jun 2018 → 3 Jul 2018

Stability of air-entrainment with PCE-superplasticizers

Fahim Al-Neshawy (Contributor) & Jouni Punkki (Speaker)
25 Aug 2017

Mapei AS

Fahim Al-Neshawy (Visiting researcher) & Jouni Punkki (Visiting researcher)
2017

IABSE Workshop, Helsinki, Finland, February 11-12, 2015, Finland

Fahim Al-Neshawy (Contributor)
2015

SAFIR2014 FINAL SEMINAR, Hanasaari, Helsinki, Finland, 19.-20.3.2015, Finland

Fahim Al-Neshawy (Contributor)
2015

SMiRT-23 2015, 23rd International Conference on Structural Mechanics in Reactor Technology, SMiRT-23, Manchester, United Kingdom - August 10-14, 2015, United Kingdom

Fahim Al-Neshawy (Contributor)
2015

David Lange

Fahim Al-Neshawy (Host)
1 Jan 2014

1st International Conference on Ageing of Materials & Structures, AMS'14, Delft University of Technology, Delft, The Netherlands, 26 – 28 May 2014, Netherlands

Fahim Al-Neshawy (Contributor)

2014

University (External organisation)

Fahim Al-Neshawy (Chair)

2014

Vagelis Papadakis

Fahim Al-Neshawy (Host)

1 Jan 2013

IABSE Workshop, Helsinki, Finland, February 14-15, 2013, Finland

Fahim Al-Neshawy (Contributor)

2013

OECD-NEA, CSNI Working Group on the Integrity and Ageing of Components and Structures Workshop, Prague, Czech Republic 17-19.9.2013, Czech Republic

Fahim Al-Neshawy (Contributor)

2013

SAFIR2014 - Interim Seminar, Hanasaari, Swedish-Finnish Cultural Centre, 21.-22.3.2013, Finland

Fahim Al-Neshawy (Contributor)

2013

University (External organisation)

Fahim Al-Neshawy (Chair)

2013

Vagelis Papadakis

Fahim Al-Neshawy (Host)

1 Jan 2012

IABSE Conference on Global Thinking in Structural Engineering: Recent Achievements, Sharm El Sheikh, Egypt, 7-9 May 2012, Egypt

Fahim Al-Neshawy (Contributor)

2012

NUCPERF 2012 RILEM Event TC 226-CNM EFC Event 351, Cadarache, France 12-15 November 2012, France

Fahim Al-Neshawy (Contributor)

2012

Concrete Solutions 2011, 4th International Conference on Concrete Repair 26-28. Sept. 2011, Dresden, Germany, Germany

Fahim Al-Neshawy (Contributor)

2011

CIB W78 2010, 27th International Conference Applications of IT in the AEC Industry. Cairo, Egypt 16-18 November 2010., Egypt

Fahim Al-Neshawy (Contributor)

2010

20th International Conference on structural mechanics in reactor technology. Dipoli Congress Centre, Espoo (Helsinki), Finland. August 9-14, 2009, Finland

Fahim Al-Neshawy (Contributor)

2009

3rd International Conference on Concrete Repair (Concrete Solutions 2009), Venice/Padova, Italy 29 June-2 July 2009, Italy

Fahim Al-Neshawy (Contributor)
2009

Duralnt-Project Workshop: Effect of interacted deterioration parameters on service life of concrete structures in cold environments" March 2-4, 2009, VTT and TKK, Espoo, Finland, Finland

Fahim Al-Neshawy (Contributor)
2009

Euroinfra 2009, International ECCE Conference, October 15-16, 2009, Helsinki, Finland

Fahim Al-Neshawy (Contributor)
2009

Foreign Organisation

Fahim Al-Neshawy (Visiting researcher)
2009

Foreign Organisation

Fahim Al-Neshawy (Visiting researcher)
2007

Foreign Organisation

Fahim Al-Neshawy (Visiting researcher)
2007

Foundit Nordic/Salford Workshop 8-9 October 2007, Iso-Britannia

Fahim Al-Neshawy (Contributor)
2007

Foundit Nordic/Salford Workshop 8 - 9 October 2007, University of Salford, U.K., 2007., Iso-Britannia

Fahim Al-Neshawy (Contributor)
2007

Foundit Seminar, 12.-13.12.2007, Helsinki University of Technology, Finland, Finland

Fahim Al-Neshawy (Contributor)
2007

FOUNDIT SEMINAR, 3rd TWO-DAY SPRING WORKSHOP: MAPS, MODELS AND METHODS, Finland

Fahim Al-Neshawy (Contributor)
2007

Found Seminar, Helsinki University of Technology, 12 - 13.12.2007,, Finland

Fahim Al-Neshawy (Contributor)
2007

Concrete Solutions, 2nd International Conference on Concrete Repair, 27 – 29, June 2006, St-Malo, Brittan, France

Fahim Al-Neshawy (Contributor)
2006

European Symposium on Service Life and Serviceability of Concrete Structures, 12. - 14. June 2006, Helsinki, Finland

Fahim Al-Neshawy (Contributor)
2006

Foreign Organisation

Fahim Al-Neshawy (Visiting researcher)
2006

Foreign Organisation

Fahim Al-Neshawy (Visiting researcher)
2006

Nordic construction IT seminar, 29. - 30.3.2006, Espoo, Finland

Fahim Al-Neshawy (Contributor)
2006

The Nordic Graduate School for the Construction Sector, Lynby, DTU 12.12.2006

Fahim Al-Neshawy (Contributor)
2006

The Nordic Graduate School for the Construction Sector ,Tukholma, KTH 22.09.2006

Fahim Al-Neshawy (Contributor)
2006

XIX Symposium on Nordic Concrete Research & Development – A Meeting Place for Research and Practice, 12.-15.June, Sandefjord, Norway

Fahim Al-Neshawy (Contributor)
2005

Prizes

Student prize: Oskari Vilamon rahaston väitöskirjapalkinto 2014 Oskari Vilamon rahasto, Finland

Al-Neshawy, Fahim (Student prize recipient), 2014

Projects

LOIKKA: Betonin CO₂-päästöjen puolittaminen

Punkki, J., Antonova, A., Saranya, R., Alapieti, T., Al-Neshawy, F., Illarionova, D., Repo, V., Iqbal, A. & Piironen, J.
EU The Recovery and Resilience Facility (RRF)
01/03/2022 → 28/02/2024

CONAGE: Critical studies in support of the Ageing Management of NPP concrete infrastructure

Puttonen, J., Ahmed, H., Ojala, T., Al-Neshawy, F. & Sistonen, E.
01/02/2019 → 31/01/2020

CONAGE: Critical studies in support of the Ageing Management of NPP concrete infrastructure

Puttonen, J., Ahmed, H., Sistonen, E., Al-Neshawy, F. & Piironen, J.
01/02/2020 → 31/01/2021

CONAGE: Critical studies in support of the Ageing Management of NPP concrete infrastructure

Puttonen, J., Piironen, J., Al-Neshawy, F. & Sistonen, E.
01/02/2021 → 31/01/2022

CONAGE2022 (VYR/SAFIR2022): Critical Studies in support of the Ageing Management of NPP Concrete Infrastructure

Puttonen, J., Al-Neshawy, F. & Ba Ragaa, A.
01/01/2022 → 31/01/2023

ConLoT (VYR/KYT2022): Durability Testing of Concrete in Long-Term Simulated Groundwater Conditions

Punkki, J., Al-Neshawy, F., Piironen, J. & Ba Ragaa, A.

01/01/2022 → 31/01/2023

Duralnt (vtt)

Al-Neshawy, F., Piironen, J., Sistonen, E., Sillanpää, M. & Kari, O.

01/01/2010 → 31/12/2011

KYT2010 (VYR)

Sistonen, E., Piironen, J., Al-Neshawy, F. & Kari, O.

01/01/2010 → 31/12/2011

PERCO2_2023 (VYR/SAFER2028): Long-term Performance Modelling of Concrete in Final Repositories of LILW Nuclear Waste

Puttonen, J., Ba Ragaa, A., Piironen, J. & Al-Neshawy, F.

01/01/2023 → 31/01/2024

PERCO2_2024 (VYR/SAFER2028): Long-term Performance Modelling of Concrete in Final Repositories of LILW Nuclear Waste

Punkki, J. & Al-Neshawy, F.

01/01/2024 → 31/01/2025

Lämmöneristettyjen kuorimuuriseinien emissiot

Piironen, J., Al-Neshawy, F., Kari, O. & Peltola, S.

01/01/2010 → 31/12/2011

WANDA: NDE of NPP primary circuit components and concrete infrastructure

Puttonen, J. & Al-Neshawy, F.

01/01/2016 → 31/01/2017

Non destructive examination of NPP primary circuit components and concrete infrastructure

Puttonen, J., Ojala, T., Al-Neshawy, F. & Huuskonen-Snicker, E.

01/01/2017 → 31/01/2018

RAILO

Al-Neshawy, F.

01/01/2010 → 31/12/2012

SAFIR2014-MANAGE (VYR)

Puttonen, J., Sistonen, E., Al-Neshawy, F., Piironen, J. & Kari, O.

01/01/2011 → 31/01/2015

Thorborg von Konowin aineisto

Al-Neshawy, F.

01/11/2013 → 31/12/2014

WANDA (VYR)

Puttonen, J., Sistonen, E. & Al-Neshawy, F.

01/01/2015 → 31/01/2016

WANDA (VYR) 2018 - T21400

Puttonen, J., Al-Neshawy, F. & Ojala, T.

01/02/2018 → 31/01/2019

