

3D Finite Element Model as a Tool for Analyzing the Structural Behavior of a Railway Track. / Kalliainen, Antti; Kolisoja, Pauli; Nurmikolu, Antti.

In: *Procedia Engineering*, Vol. 143, 2016, p. 820-827.

Research output: Contribution to journal › Article › Scientific › peer-review

3D finite elements modelling of percussive rock drilling: Estimation of rate of penetration based on multiple impact simulations with a commercial drill bit. / Saksala, Timo; Fourmeau, Marion ; Kane, Pascal-Alexandre; Hokka, Mikko.

In: *Computers and Geotechnics*, Vol. 99, 2018, p. 55-63.

Research output: Contribution to journal › Article › Scientific › peer-review

3D numerical modelling of thermal shock assisted percussive drilling. / Saksala, Timo.

In: *Computers and Geotechnics*, Vol. 128, 103849, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Arsenic in bedrock, soil and groundwater - The first arsenic guidelines for aggregate production established in Finland. /

Parviainen, Annika; Loukola-Ruskeeniemi, Kirsti; Tarvainen, Timo; Hatakka, Tarja; Härmä, Paavo; Backman, Birgitta; Ketola, Terhi; Kuula, Pirjo; Lehtinen, Heli; Sorvari, Jaana; Pyy, Outi; Ruskeeniemi, Timo; Luoma, Samrit.

In: *Earth-Science Reviews*, Vol. 150, 01.11.2015, p. 709-723.

Research output: Contribution to journal › Article › Scientific › peer-review

Artificial neural networks models for rate of penetration prediction in rock drilling. / Fathipour Azar, Hadi; Saksala, Timo; Jalali, Seyed-Mohammad Esmail .

In: *Rakenteiden mekaniikka*, Vol. 50, No. 3, 21.08.2017, p. 252-255.

Research output: Contribution to journal › Article › Scientific › peer-review

Betonisten ratapölkkyjen väsytytkuormituskokeet. / Rantala, Tommi ; Kerokoski, Olli ; Nurmikolu, Antti.

In: *Rakenteiden mekaniikka*, Vol. 48, No. 1, 03.06.2015, p. 18-33.

Research output: Contribution to journal › Article › Scientific › peer-review

Characterization of fine fraction mined from two Finnish landfills. / Mönkäre, Tiina J.; Palmroth, Marja R. T.; Rintala, Jukka A.

In: *Waste Management*, Vol. 47A, 2016, p. 34-39.

Research output: Contribution to journal › Article › Scientific › peer-review

Combining mineral fractions of recovered MSWI bottom ash: improvement for utilization in civil engineering structures. /

Sormunen, Laura Annika; Kalliainen, Antti ; Kolisoja, Pauli ; Rantsi, Riina.

In: *Waste and Biomass Valorization*, 22.08.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

Comparison of community managed projects and conventional approaches in rural water supply of Ethiopia. / Behailu, Beshah M.; Suominen, Arto; Katko, Tapio S.; Mattila, Harri; Yayehiyad, Gashaw .

In: *African Journal of Environmental Science and Technology*, Vol. 10, No. 9, 04AF23059936, 30.09.2016, p. 292-306.

Research output: Contribution to journal › Article › Scientific › peer-review

Correlations for undrained shear strength of Finnish soft clays. / D'Ignazio, Marco; Phoon, Kok Kwang; Tan, Siew Ann; Länsivaara, Tim .

In: *Canadian Geotechnical Journal*, Vol. 53, No. 10, 2016, p. 1628-1645.

Research output: Contribution to journal › Article › Scientific › peer-review

Demolition of concrete by thermal shock spallation: a mesoscopic numerical study based on embedded discontinuity finite elements. / Saksala, Timo.

In: *INTERNATIONAL JOURNAL OF FRACTURE*, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Failure in anisotropic sensitive clays: a finite element study of the Perniö failure test. / D'Ignazio, Marco; Länsivaara, Tim ; Jostad, Hans Petter.

In: Canadian Geotechnical Journal, Vol. 54, No. 7, 2017, p. 1013-1033.
Research output: Contribution to journal › Article › Scientific › peer-review

Investigation and geotechnical characterization of Perniö clay, Finland. / Di Buò, Bruno; D'Ignazio, Marco; Selänpää, Juha ; Haikola, Markus; Länsivaara, Tim; Di Sante, Marta.

In: AIMS Geosciences, Vol. 5, No. 3, 05.08.2019, p. 591–616.
Research output: Contribution to journal › Article › Scientific › peer-review

Lime treatment of a soft sensitive clay : A sustainable reuse option. / Di Sante, Marta; Di Buò, Bruno; Fratolocchi, Evelina; Länsivaara, Tim.

In: Geosciences, Vol. 10, No. 5, 182, 2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Mechanical properties of recovered municipal solid waste incineration bottom ash: the influence of aging and changes in moisture content. / Sormunen, Laura Annika; Kolisoja, Pauli .

In: Road Materials and Pavement Design , Vol. 19, No. 2, 2018, p. 252-270.
Research output: Contribution to journal › Article › Scientific › peer-review

Methodology to estimate ionospheric scintillation risk maps and their contribution to position dilution of precision on the ground. / Koulouri, Alexandra; Smith, Nathan D.; Vani, Bruno C.; Rimpiläinen, Ville; Astin, Ivan; Forte, Biagio.

In: JOURNAL OF GEODESY, Vol. 94, 22, 2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Modelling of plastic culvert and road embankment interaction in 3D. / Kolisoja, Pauli ; Kalliainen, Antti .

In: Procedia Engineering, Vol. 143, 2016, p. 427-434.
Research output: Contribution to journal › Article › Scientific › peer-review

Moisture behavior of external insulated precast concrete wall panels. / Sekki, Pauli; Karvinen, Timo; Vinha, Juha.

In: Journal of Building Physics, 2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Numerical 3D modelling of the effects of strain rate and confining pressure on the compressive behavior of Kuru granite. / Saksala, Timo; Hokka, Mikko; Kuokkala, Veli-Tapani.

In: Computers and Geotechnics, Vol. 88, 2017, p. 1-8.
Research output: Contribution to journal › Article › Scientific › peer-review

Numerical modeling of rock failure under dynamic loading with polygonal elements. / Saksala, Timo; Jabareen, Mahmood.

In: International Journal for Numerical and Analytical Methods in Geomechanics, Vol. 43, No. 12, 2019, p. 2056-2074.
Research output: Contribution to journal › Article › Scientific › peer-review

Numerical modeling of the tool-rock penetration process using FEM coupled with SPH technique. / Mardalizad, Aria; Saksala, Timo; Manes, Andrea; Giglio, Marco.

In: JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, Vol. 189, 107008, 2020.
Research output: Contribution to journal › Article › Scientific › peer-review

Numerical modelling of dynamic spalling test on rock with an emphasis on the influence of pre-existing cracks. / Saksala, Timo.

In: Rakenteiden mekaniikka, Vol. 50, No. 2, 07.08.2017, p. 63-76.
Research output: Contribution to journal › Article › Scientific › peer-review

Numerical modelling of pore-fluid-enhanced thermal spallation in granitic rock. / Saksala, Timo.

In: Rakenteiden mekaniikka, Vol. 53, No. 2, 2020, p. 100-109.
Research output: Contribution to journal › Article › Scientific › peer-review

Numerical modelling of rock materials with polygonal finite elements. / Saksala, Timo.

In: Rakenteiden mekaniikka, Vol. 50, No. 3, 21.08.2017, p. 216-219.

Research output: Contribution to journal › Article › Scientific › peer-review

On the Strain Rate Sensitivity of Coarse-Grained Rock: A Mesoscopic Numerical Study. / Saksala, Timo.

In: Rock Mechanics and Rock Engineering, Vol. 52, No. 9, 2019, p. 3229–3240.

Research output: Contribution to journal › Article › Scientific › peer-review

Problems with Railway Track Drainage in Finland. / Latvala, Juha; Nurmikolu, Antti; Luomala, Heikki.

In: Procedia Engineering, Vol. 143, 13.07.2016, p. 1051-1058.

Research output: Contribution to journal › Article › Scientific › peer-review

Reply to the discussion by Mesri and Wang on "Correlations for undrained shear strength of Finnish soft clays". /

D'Ignazio, Marco; Phoon, Kok-Kwang; Tan, Siew Ann; Lämsivaara, Tim; Lacasse, Suzanne.

In: Canadian Geotechnical Journal, 2017.

Research output: Contribution to journal › Article › Scientific › peer-review

Shear bands in soft clays: strain-softening behavior in finite element method. / D'Ignazio, Marco; Lämsivaara, Tim .

In: Rakenteiden mekaniikka, Vol. 48, No. 1, 2015, p. 83-98.

Research output: Contribution to journal › Article › Scientific › peer-review

Stress-strain hysteresis shape estimation of different soils using deformation-history integral (DHI) model. / Vatanshenas, A.; Mori, T.; Farhadi, M.S.; Lämsivaara, T.

In: MATERIALS PHYSICS AND MECHANICS, Vol. 44, No. 2, 10.07.2020, p. 221-228.

Research output: Contribution to journal › Article › Scientific › peer-review

Temporal variation in indoor transfer of dirt-associated environmental bacteria in agricultural and urban areas. / Hui, Nan;

Parajuli, Anirudra; Puhakka, Riikka; Grönroos, Mira; Roslund, Marja I.; Vari, Heli K.; Selonen, Ville A.O.; Yan, Guoyong; Siter, Nathan; Nurminen, Noora; Oikarinen, Sami; Laitinen, Olli; Rajaniemi, Juho; Hyöty, Heikki; Sinkkonen, Aki.

In: Environment International, Vol. 132, No. November 2019, 105069, 07.08.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Thermal shock assisted percussive drilling : A numerical study on the single-bit axisymmetric case. / Saksala, Timo.

In: International Journal of Rock Mechanics and Mining Sciences, Vol. 132, 104365, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Thermal shock weakening of granite rock under dynamic loading: 3D numerical modeling based on embedded discontinuity finite elements. / Saksala, Timo; Ibrahimbegovic, Adnan.

In: International Journal for Numerical and Analytical Methods in Geomechanics, Vol. 44, No. 13, 2020, p. 1788-1811.

Research output: Contribution to journal › Article › Scientific › peer-review

Variation of CPTu-based transformation models for undrained shear strength of Finnish clays. / Knuuti, Mika; Lämsivaara, Tim.

In: Georisk, Vol. 13, No. 4, 02.10.2019, p. 262-270.

Research output: Contribution to journal › Article › Scientific › peer-review

Nysse tulee - Tampere3 nimittäin. / Kolisoja, Pauli.

In: Geofoor, No. 48, 10.2018, p. 27-28.

Research output: Contribution to journal › Article › Professional

Vesihuollon instituutiot vaativat taitavaa jalkapallopeleä. / Inha, Laura; Katko, Tapio S.; Rajala, Riikka.

In: Rakennustekniikka, Vol. 75, No. 3, 06.2019, p. 38-40.

Research output: Contribution to journal › Article › Professional

Vesihuollon strateginen kehittäminen haltuun : Ydin- ja tukitoiminnon tarpeen hahmottaa selkeästi. / Katko, Tapio S.; Hukka, Jarmo J.
In: Kuntatekniikka, Vol. 70, No. 2, 2016, p. 12-13.
Research output: Contribution to journal › Article › Professional

Vesihuolto yhdyskuntien ympäristön turvaajana: uskomuksia ja todellisuuksia. / Katko, Tapio S.; Inha, Laura; Rajala, Riikka.
In: Ympäristökasvatus, No. 2, 05.2019.
Research output: Contribution to journal › Article › Professional

WC-tilat ja -opasteet vain likana silmissämme? / Katko, Tapio S.
In: Kuntatekniikka, Vol. 72, No. 4, 2018, p. 45.
Research output: Contribution to journal › Article › Professional

Foreword. / Länsivaara, Tim.
In: HKIE Transactions, Vol. 25, No. 2, 2018.
Research output: Contribution to journal › Review Article › Scientific

Estimation of preconsolidation stress of clays from piezocone by means of high-quality calibration data. / D'Ignazio, Marco; Lunne, Tom; Andersen, Knut H.; Yang, Shaoli; Di Buo, Bruno; Länsivaara, Tim.
In: AIMS Geosciences, Vol. 5, No. 2, 08.05.2019, p. 104-116.
Research output: Contribution to journal › Review Article › Scientific › peer-review

Evaluation of sample quality from different sampling methods in Finnish soft sensitive clays. / Di Buo, Bruno; Selänpää, Juha; Länsivaara, Tim; D'Ignazio, Marco.
In: Canadian Geotechnical Journal, 2018.
Research output: Contribution to journal › Review Article › Scientific › peer-review

Valkea kaupunki, mustat vedet. / Juuti, Petri; Rajala, Riikka.
In: Vesitalous, Vol. 2017, No. 1, 2017, p. 15-17.
Research output: Contribution to journal › Review Article › Scientific › peer-review

Editorial to "The best papers from the 32nd International Symposium on Automation and Robotics in Construction and Mining (ISARC 2015)". / Malaska, Mikko; Heikkilä, Rauno.
In: Automation in Construction, Vol. 71, 01.11.2016, p. 1.
Research output: Contribution to journal › Editorial › Scientific

Determination of remoulding energy of sensitive clays. / Thakur, Vikas; Degago, Samson Abate; Selänpää, Juha; Länsivaara, Tim.
Landslides in Sensitive Clays: From Research to Implementation. Springer, 2017. p. 97-107 (Advances in Natural and Technological Hazards Research; Vol. 46).
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Effects of sample disturbance in the determination of soil parameters for advanced finite element modelling of sensitive clays. / D'Ignazio, Marco; Jostad, Hans Petter; Länsivaara, Tim; Lehtonen, Ville; Mansikkamäki, Juho; Meehan, Christopher.
Landslides in Sensitive Clays: From Research to Implementation. Springer, 2017. p. 146-154 (Advances in Natural and Technological Hazards Research; Vol. 46).
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Problems related to field vane testing in soft soil conditions and improved reliability of measurements using an innovative field vane device. / Selänpää, Juha; Buò, Bruno Di; Länsivaara, Tim; D'Ignazio, Marco.
Landslides in Sensitive Clays: From Research to Implementation. Springer, 2017. p. 121-131 (Advances in Natural and Technological Hazards Research; Vol. 46).
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Liite 6: Yleistä kaivannaisjätealueista ja patoturvallisuudesta. / Leppänen, Minna ; Välsalo, Tero (Editor); Laasonen, Juha. Kaivosten stressitesti 2013. Ympäristöministeriö, 2014. (Ympäristöministeriön raportteja).
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Professional

A laboratory listening experiment on subjective and objective rating of impact sound insulation of concrete floors. /

Kylliäinen, Mikko ; Hongisto, Valtteri; Oliva, David; Rekola, Laura.

Proceedings of the INTER-NOISE 2016, 45th International Congress on Noise Control Engineering : Towards a Quieter Future, August 21-24, 2016, Hamburg, Germany. Hamburg : German Acoustical Society (DEGA), 2016. p. 894-902 193.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

A method for design of sound insulation of glazed balconies against traffic noise. / Kovalainen, Ville; Kylliäinen, Mikko; Huhtala, Timo.

Proceedings of the INTER-NOISE 2016, 45th International Congress and Exposition on Noise Control Engineering : Towards a Quieter Future, August 21-24, 2016, Hamburg, Germany. Hamburg : German Acoustical Society (DEGA), 2016. p. 3834-3841 503.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Kapillaaristen vedenimuominaisuuksien määrittämiseen sopivan vapaan vedenimukoelaitteiston kehittäminen. /

Tuominen, Eero; Vinha, Juha.

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 233-238.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Laastien vedenimukertoimen määrittämisen virhelähdekokeet. / Tuominen, Eero; Vinha, Juha.

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 239-244.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Laastin ja betonin lämmönjohtavuuden ja ominaislämpökapasiteetin määrittäminen lämpövirtalevyllä. / Ruuska, Tiina ; Vinha, Juha.

Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere. ed. / Juha Vinha; Tiina Ruuska. Tampere : Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, 2015. p. 227-232.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

Anisotropic total and effective stress stability analysis of the Perniö failure test. / D'Ignazio, Marco; Mansikkamäki, Juho; Länsivaara, Tim.

Numerical Methods in Geotechnical Engineering : Proceedings of the 8th European Conference on Numerical Methods in Geotechnical Engineering NUMGE2014, Delft, The Netherlands, 18-20 June 2014. ed. / Michael A . Hicks; Ronald B . J . Brinkgreve; Alexander Rohe. CRC Press Taylor & Francis Group; A Balkema book, 2014. p. 609-614.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A proposal for some modifications of EN 1997-1 design approaches. / Länsivaara, Tim ; Knuuti, Mika.

Fifth International Symposium on Geotechnical Safety and Risk (ISGSR): Rotterdam, The Netherlands 13-16 October 2015. IOS Press, 2015. p. 486-491.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Back-calculation of the Saint-Alban A test embankment with a new modelling approach in LEM. / Lehtonen, V.; Länsivaara, T.

Proceedings of the The 17th Nordic Geotechnical Meeting, Reykjavik Iceland: 25th - 28th of May 2016. 2016. p. 691-699.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Commercialising reclaimed materials in earthworks – guidelines for productization and the process of appending these materials in the Finnish national code of practice. / Koivisto, K.; Forsman, J.; Ronkainen, M.; Lahtinen, P.; Kolisoja, P.; Kuula, P.

Proceedings of the 17th Nordic Geotechnical Meeting Reykjavik Iceland: Challenges in Nordic Geotechnic 25th - 28th of May. Reykjavik : Icelandic Geotechnical Society, 2016.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Condition-Based Track Maintenance and Rehabilitation Design Using Combined Data Analysis. / Silvast, Mika; Nurmikolu, Antti; Wiljanen, Bruce; Mäkelä, Erkki.

GEORAIL 2014 : 2nd International symposium - Railway geotechnical engineering, 6-7 November 2014, France. Ranska : IFSTTAR, 2014. p. 649-656.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Continuum modelling of dynamic rock fracture under triaxial confinement. / Saksala, Timo; Hokka, Mikko; Kuokkala, Veli-Tapani.

14th International Conference on Fracture, Proceedings of ICF 14 : Rhodes, Greece, June 18-23, 2017. 2017. 822.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Effects of Lime Stabilization on Hydraulic Behavior of Finnish Soft Sensitive Clays: Towards a Sustainable Geoenvironment. / Di Sante, M.; Giorgetti, F.; Di Buo, B.; Länsivaara, T.; Pasqualini, E.

Proceedings of the 8th International Congress on Environmental Geotechnics. Vol. 1 Springer, 2018. p. 226-234.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Evaluation of existing CPTu-based correlations for the undrained shear strength of soft Finnish clays. / Selänpää, Juha; Di Buo, Bruno; Haikola, Markus; Länsivaara, Tim; D'Ignazio, Marco.

Cone Penetration Testing 2018: Proceedings of the 4th International Symposium on Cone Penetration Testing (CPT'18). CRC Press, 2018. p. 571-577.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Finnish mine waste disposal areas. / Leppänen, Minna ; Laasonen, Juha; Välisalo, Tero.

Geosynthetics Mining Solutions 2014. Infomine, 2014.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Numerical modelling of fracture processes in thermal shock weakened rock. / Pressacco, Martina; Saksala, Timo.

Geomechanics and Geodynamics of Rock Masses, Volume 1 Proceedings of the 2018 European Rock Mechanics Symposium. ed. / Vladimir Litvinenko. CRC Press, 2018. p. 883-888.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Numerical modelling of rock fracture with a Hoek-Brown viscoplastic-damage model implemented with polygonal finite elements. / Saksala, Timo.

Geomechanics and Geodynamics of Rock Masses, Volume 1: Proceedings of the 2018 European Rock Mechanics Symposium. ed. / Vladimir Litvinenko. CRC Press, 2018. p. 903-908.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Numerical modelling of thermal drilling of rock by heating-cooling cycle. / Pressacco, Martina; Saksala, Timo.

Rock Mechanics for Natural Resources and Infrastructure Development - Full Papers: Proceedings of the 14th International Congress on Rock Mechanics and Rock Engineering (ISRM 2019), September 13-18, 2019, Foz do Iguassu, Brazil. CRC Press, 2020. p. 2547-2553 (Proceedings in Earth and geosciences; Vol. 6).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Numerical modelling of thermal spallation of rock. / Saksala, Timo.

Proceedings of XII Argentine Congress on Computational Mechanics (MECOM2018) . 2018. p. 1567-1574 (Mecánica Computacional; Vol. 36, No. 48).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Numerical modelling of underground tunnel in rock under seismic loading with polygonal finite elements. / Saksala, Timo.

Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions: Proceedings of the 7th International Conference on Earthquake Geotechnical Engineering, (ICEGE 2019), June 17-20, 2019, Rome, Italy. CRC Press, 2019. p. 4808-4814 (Proceedings in Earth and geosciences ; Vol. 4).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Preliminary results from a study aiming to improve ground investigation data. / Di Buo, B.; D'Ignazio, M.; Selänpää, J.; Länsivaara, T.

Proceedings of the 17th Nordic Geotechnical Meeting: Challenges in Nordic Geotechnic 25th-28th of May. Reykjavik : Icelandic Geotechnical Society, 2016. p. 187-197.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Spatial variability of reed bed spectra in Olkiluoto Island. / Tuominen, Jyrki; Lipping, Tarmo.

2016 IEEE International Geoscience and Remote Sensing Symposium (IGARSS),: July 10-15, Beijing, China. IEEE, 2016. p. 7188-7191 (IEEE International Geoscience and Remote Sensing Symposium Proceedings).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Stiffmaster - A continuous track stiffness measurement device. / Luomala, Heikki; Peltokangas, Ossi; Nurmikolu, Antti.

GEORAIL 2014 : 2nd International symposium - Railway geotechnical engineering, 6-7 November 2014, France.

IFSTAR, 2014. p. 109-118.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Strength increase below an old test embankment in Finland. / D'Ignazio, Marco; Länsivaara, Tim .

The 17th Nordic Geotechnical Meeting: Conference proceedings. Reykjavik : Icelandic Geotechnical Society, 2016. p. 357-366.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

The effects of improved energy efficiency on indoor environmental quality in multi-family buildings. / Du, Liuliu;

Prasauskas, Tadas; Leivo, Virpi ; Turunen, Mari; Kiviste, Mihkel; Martuzevicius, Dainius; Haverinen-Shaughnessy, Ulla.

Indoor Air 2016: The 14th international conference of Indoor Air Quality and Climate Ghent, Belgium July 3-8 2016. 2016. 737.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Deterioration mechanisms and life cycle of concrete monoblock railway sleepers in Finnish conditions. / Kerokoski, Olli ;

Rantala, Tommi ; Nurmikolu, Antti .

WCRR 2016 Proceedings: 11th World congress on railway research, 29.5-2.6.2016, Milano. 2016.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

Otat näytteen vain kerran. / Länsivaara, Tim; Korkiala-Tanttu, Leena.

Geotekniikan Päivä. SGY, 2018.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

Test in scala reale su argille sensibili: l'esperienza finlandese. / D'Ignazio, Marco.

5 IAGIG, Incontro Annuale dei Giovani Ingegneri Geotecnici. Rome, 2015.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

Varmuuden kohdentaminen geotekniikassa, miten Eurokoodeja voisi kehittää? / Länsivaara, Tim.

Geotekniikan päivä 2015. SGY, 2015.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

A High-resolution Coupled Permafrost - Ice Sheet Model. / Zwinger, Thomas; Hartikainen, Juha; Cohen, Denis.

2018. 123 Paper presented at POLAR2018, Davos, Switzerland.

Research output: Other conference contribution › Paper, poster or abstract › Scientific

Chasing measurements for real-world emissions of city buses. / Järvinen, Anssi; Karjalainen, Panu; Bloss, Matthew;

Potila, Outi; Simonen, Pauli; Kuuluvainen, Heino; Timonen, Hilka; Saarikoski, Sanna; Niemi, Jarkko V.; Keskinen, Jorma; Rönkkö, Topi.

2017. Paper presented at European Aerosol Conference 2017, Zürich, Switzerland.

Research output: Other conference contribution › Paper, poster or abstract › Scientific

Identifying criteria for environmental risk assessment models at different stage-gates of nano-material/product innovation considering requirements of various stakeholders (TH083). / Sørensen, Sara N.; Hansen, S. F.; Baun, A.; Spurgeon,

Dave; Matzke, M.; Schirmer, K.; Burkard, M.; Dal Maso, Miikka; Poikkimäki, Mikko; Verschoor, A.; Quik, Joris;

Peijnenburg, Willie; Wigger, Henning; Nowack, Bernd.
2018. Paper presented at SETAC EUROPE 28th Annual Meeting, Rome, Italy.
Research output: Other conference contribution › Paper, poster or abstract › Scientific

The effect of climate change on freeze-thaw durability of concrete structures in Finland. / Pakkala, Toni ; Lemberg, Antti-Matti; Lahdensivu, Jukka .
2016. 53 Paper presented at OCEANEXT : Interdisciplinary Conference, .
Research output: Other conference contribution › Paper, poster or abstract › Scientific

Thermal Evolution of a Holocene Arctic Environment in Western Greenland. / Hartikainen, Juha; Claesson Liljedahl, Lillemor; Kolisoja, Pauli; Kontula, Anne; Kouhia, Reijo; Näslund, Jens-Ove; van As, Dirk; Zwinger, Thomas.
2018. 122.
Research output: Other conference contribution › Paper, poster or abstract › Scientific

Vertical profiles of lung deposited surface area concentration of particulate matter measured with a drone in an urban street canyon. / Kuuluvainen, Heino; Poikkimäki, Mikko; Järvinen, Anssi; Irjala, Matti; Dal Maso, Miikka; Niemi, J.V.; Timonen, Hilikka; Keskinen, Jorma; Rönkkö, Topi.
2018. Paper presented at 11th International Conference on Air Quality - Science and Application, Barcelona, Spain.
Research output: Other conference contribution › Paper, poster or abstract › Scientific

Vertical profiles of lung deposited surface area (LDSA) concentration measured with a drone in an urban street canyon (MP-17). / Kuuluvainen, Heino; Poikkimäki, Mikko; Järvinen, Anssi; Kuula, Joel; Irjala, Matti; Dal Maso, Miikka; Keskinen, Jorma; Timonen, Hilikka; Niemi, J.V.; Rönkkö, Topi.
2018. 73 Paper presented at Aerosol Technology 2018, Bilbao, Spain.
Research output: Other conference contribution › Paper, poster or abstract › Scientific

Acceptability of contaminated soils and waste materials in landfill structures. / Leppänen, Minna M.; Kuula, Pirjo .
2016. Paper presented at Nordrocs, .
Research output: Other conference contribution › Paper, poster or abstract › Professional

Älypölkky, radan monitorointi, kreosoottipölkyn korvaavat vaihtoehdot. / Luomala, Heikki .
2016, Esitelmä.
Research output: Other contribution › Scientific

Ballast bed. / Luomala, Heikki .
2016, Speaker.
Research output: Other contribution › Scientific

Näkökulma-kolumni: Putkiremontit kestävät aivan liian kauan. / Saari, Arto .
Sanoma Talotekniikkajulkaisut Oy. 2016, . (Rakennuslehti).
Research output: Other contribution › Scientific

Sleepers. / Luomala, Heikki .
2016, Speaker.
Research output: Other contribution › Scientific

Tutkimusohjelma Elinkaaritehokas RAta (TERA) : Kokonaisvaltainen ote ratarakennetutkimukseen. / Luomala, Heikki .
2016, Esitelmä.
Research output: Other contribution › Scientific

Tierakenteen rasittuminen yli 76 tonnin HCT-yhdistelmien koekuormituksissa vuosina 2015 - 2017 : Liikenneviraston tutkimuksia ja selvityksiä 63/2018. / Vuorimies, Nuutti; Kalliainen, Antti; Rossi, Jonna; Kolisoja, Pauli; Varin, Petri; Saarenketo, Timo.
Liikennevirasto, 2018. 115 p.
Research output: Book/Report › Book › Scientific

Betonirakenteiden korjausohjeet 2016, by 41. / Kõliö, Arto ; Pakkala, Toni ; Lahdensivu, Jukka; Pentti, Matti .
Suomen Betoniyhdistys r.y., 2016. 115 p.
Research output: Book/Report › Book › Professional

Teräsrumpujen uudet korjausmenetelmät : Halkaistu sisäputki, puolipohjaus ja pohjan betonointi. / Kalliainen, Antti ;
Haakana, Ville ; Korhonen, Matti; Mäkinen, Jari ; Kolisoja, Pauli .
Liikennevirasto, 2016. 70 p. (Liikenneviraston tutkimuksia ja selvityksiä).
Research output: Book/Report › Book › Professional

ASROCKS-Hankkeen heikkouuttomenetelmien vertailu. / Tarvainen, Timo; Hatakka, Tarja; Backman, Birgitta; Ketola,
Terhi; Härmä, Paavo.
GEOLOGIAN TUTKIMUSKESKUS, 2014. 13 p.
Research output: Book/Report › Commissioned report › Professional

Kiviaines- ja luonnonkiviteollisuuden kehitysnäkymät. / Loukola-Ruskeeniemi, Kirsti (Editor); Lonka, Harriet (Editor);
Ehrukainen, Eija; Gustafsson, Juhani; Honkanen, Mika; Härmä, Paavo; Jauhiainen, Pekka; Kuula, Pirjo ; Nenonen, Keijo;
Pellinen, Terhi; Rintala, Jari; Selonen, Olavi; Martikainen, Mikko; Aalto, Mika.
Helsinki : Työ- ja elinkeinoministeriö, 2015. 72 p. (Työ- ja elinkeinoministeriön julkaisuja; Vol. 2015, No. 54).
Research output: Book/Report › Commissioned report › Professional

Kiviainesten otto arseenialueilla - opas kiviainesten tuottajille, maarakentajille ja viranomaisille. / Härmä, Paavo;
Tarvainen, Timo; Backman, Birgitta; Hatakka, Tarja; Ketola, Terhi; Kuula, Pirjo; Luoma, Samrit; Pyy, Outi; Sorvari, Jaana;
Loukola-Ruskeeniemi, Kirsti.
Espoo : GEOLOGIAN TUTKIMUSKESKUS, 2014. 71 p.
Research output: Book/Report › Commissioned report › Professional

Konvektiivinen lämmönsiirtyminen ratapenkereessä. / Latvala, Juha .
Liikennevirasto, 2015. 115 p. (Liikenneviraston tutkimuksia ja selvityksiä).
Research output: Book/Report › Commissioned report › Professional

**Selvitys UUMA-materiaalien teknisen kelpoisuuden arviointiin liittyvistä testausstandardeista ja -menetelmistä (1. vaihe),
29.12.2014.** / Kuula, Pirjo; Kolisoja, Pauli; Sjöberg, Maria; Ketola, Terhi; Koivisto, Kirsi; Forsman, Juha; Dettenborn, Taavi;
Jyvära, Harri.
Ramboll, 2015. (UUMA 2, Uusiomateriaalit maarakentamisessa ohjelma 2013-2015).
Research output: Book/Report › Commissioned report › Professional

**Tien ja radan sitomattomissa rakennekerroksissa käytettävien kiviainesten lujuuden ja hienontumisen tutkiminen :
kirjallisuus selvitys.** / Kuula, Pirjo .
2015 ed. Helsinki : Liikennevirasto, 2015. 115 p. (Liikenneviraston tutkimuksia ja selvityksiä; Vol. 2015, No. 68).
Research output: Book/Report › Commissioned report › Professional

Evaluation of the Preconsolidation Stress and Deformation Characteristics of Finnish Clays based on Piezocone Testing. /
Di Buo, Bruno.
Tampere University, 2020. 186 p. (Tampere University Dissertations; Vol. 222).
Research output: Book/Report › Doctoral thesis › Monograph

Undrained shear strength of Finnish clays for stability analyses of embankments. / D'Ignazio, Marco.
Tampere University of Technology, 2016. 178 p. (Tampere University of Technology. Publication; Vol. 1412).
Research output: Book/Report › Doctoral thesis › Monograph