

Kalliainen, A, Kolisoja, P & Nurmikolu, A 2016, '3D Finite Element Model as a Tool for Analyzing the Structural Behavior of a Railway Track', *Procedia Engineering*, vol. 143, pp. 820-827. <https://doi.org/10.1016/j.proeng.2016.06.133>

Saksala, T, Fourmeau, M, Kane, P-A & Hokka, M 2018, '3D finite elements modelling of percussive rock drilling: Estimation of rate of penetration based on multiple impact simulations with a commercial drill bit', *Computers and Geotechnics*, vol. 99, pp. 55-63. <https://doi.org/10.1016/j.compgeo.2018.02.006>

Saksala, T 2020, '3D numerical modelling of thermal shock assisted percussive drilling', *Computers and Geotechnics*, vol. 128, 103849. <https://doi.org/10.1016/j.compgeo.2020.103849>

Leppänen, MM & Kuula, P 2016, 'Acceptability of contaminated soils and waste materials in landfill structures' Paper presented at Nordrocs, 5/04/17, .

Zwinger, T, Hartikainen, J & Cohen, D 2018, 'A High-resolution Coupled Permafrost - Ice Sheet Model' Paper presented at POLAR2018, Davos, Switzerland, 19/06/18 - 23/06/18, pp. 123.

Kylliäinen, M, Hongisto, V, Oliva, D & Rekola, L 2016, A laboratory listening experiment on subjective and objective rating of impact sound insulation of concrete floors. in *Proceedings of the INTER-NOISE 2016, 45th International Congress on Noise Control Engineering : Towards a Quieter Future, August 21-24, 2016, Hamburg, Germany.*, 193, German Acoustical Society (DEGA), Hamburg, pp. 894-902, INTERNATIONAL CONGRESS AND EXPOSITION ON NOISE CONTROL ENGINEERING, 1/01/00.

Luomala, H 2016, *Älypölkky, radan monitorointi, kreosottipölkyn korvaavat vaihtoehdot.*

Kovalainen, V, Kylliäinen, M & Huhtala, T 2016, A method for design of sound insulation of glazed balconies against traffic noise. in *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.*, 503, German Acoustical Society (DEGA), Hamburg, pp. 3834-3841, INTERNATIONAL CONGRESS AND EXPOSITION ON NOISE CONTROL ENGINEERING, 1/01/00.

D'Ignazio, M, Mansikkamäki, J & Länsivaara, T 2014, Anisotropic total and effective stress stability analysis of the Perniö failure test. in MA Hicks, RBJ Brinkgreve & A Rohe (eds), *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.* CRC Press Taylor & Francis Group; A Balkema book, pp. 609-614, European Conference on Numerical Methods in Geotechnical Engineering, 1/01/14. <https://doi.org/10.1201/b17017-109>

Länsivaara, T & Knuuti, M 2015, A proposal for some modifications of EN 1997-1 design approaches. in *Fifth International Symposium on Geotechnical Safety and Risk (ISGSR): Rotterdam, The Netherlands 13-16 October 2015.* IOS Press, pp. 486-491, International Symposium on Geotechnical Safety and Risk, Netherlands, 1/11/10.

Parviainen, A, Loukola-Ruskeeniemi, K, Tarvainen, T, Hatakka, T, Härmä, P, Backman, B, Ketola, T, Kuula, P, Lehtinen, H, Sorvari, J, Pyy, O, Ruskeeniemi, T & Luoma, S 2015, 'Arsenic in bedrock, soil and groundwater - The first arsenic guidelines for aggregate production established in Finland', *Earth-Science Reviews*, vol. 150, pp. 709-723. <https://doi.org/10.1016/j.earscirev.2015.09.009>

Fathipour Azar, H, Saksala, T & Jalali, S-ME 2017, 'Artificial neural networks models for rate of penetration prediction in rock drilling', *Rakenteiden mekaniikka*, vol. 50, no. 3, pp. 252-255. <https://doi.org/10.23998/rm.64969>

Tarvainen, T, Hatakka, T, Backman, B, Ketola, T & Härmä, P 2014, *ASROCKS-Hankkeen heikkouuttomenetelmien vertailu.* GEOLOGIAN TUTKIMUSKESKUS.

Lehtonen, V & Länsivaara, T 2016, Back-calculation of the Saint-Alban A test embankment with a new modelling approach in LEM. in *Proceedings of the The 17th Nordic Geotechnical Meeting, Reykjavik Iceland: 25th - 28th of May 2016.* pp. 691-699, NORDIC GEOTECHNICAL MEETING, 1/01/00.

Luomala, H 2016, *Ballast bed*.

Köliö, A, Pakkala, T, Lahdensivu, J & Pentti, M 2016, *Betonirakenteiden korjausohjeet 2016, by 41*. Suomen Betoniyhdistys r.y.

Rantala, T, Kerokoski, O & Nurmikolu, A 2015, 'Betonisten ratapölkkyjen väsytytkuormituskoheet', *Rakenteiden mekaniikka*, vol. 48, no. 1, pp. 18-33.

Mönkäre, TJ, Palmroth, MRT & Rintala, JA 2016, 'Characterization of fine fraction mined from two Finnish landfills', *Waste Management*, vol. 47A, pp. 34-39. <https://doi.org/10.1016/j.wasman.2015.02.034>

Järvinen, A, Karjalainen, P, Bloss, M, Potila, O, Simonen, P, Kuuluvainen, H, Timonen, H, Saarikoski, S, Niemi, JV, Keskinen, J & Rönkkö, T 2017, 'Chasing measurements for real-world emissions of city buses' Paper presented at European Aerosol Conference 2017, Zürich, Switzerland, 27/08/17 - 1/09/17, .

Sormunen, LA, Kalliainen, A, Kolisoja, P & Rantsi, R 2016, 'Combining mineral fractions of recovered MSWI bottom ash: improvement for utilization in civil engineering structures', *Waste and Biomass Valorization*. <https://doi.org/10.1007/s12649-016-9656-4>

Koivisto, K, Forsman, J, Ronkainen, M, Lahtinen, P, Kolisoja, P & Kuula, P 2016, Commercialising reclaimed materials in earthworks – guidelines for productization and the process of appending these materials in the Finnish national code of practice. in *Proceedings of the 17th Nordic Geotechnical Meeting Reykjavik Iceland: Challenges in Nordic Geotechnic 25th - 28th of May*. Icelandic Geotechnical Society, Reykjavik, NORDIC GEOTECHNICAL MEETING, 1/01/00.

Behailu, BM, Suominen, A, Katko, TS, Mattila, H & Yayehyirad, G 2016, 'Comparison of community managed projects and conventional approaches in rural water supply of Ethiopia', *African Journal of Environmental Science and Technology*, vol. 10, no. 9, 04AF23059936, pp. 292-306. <https://doi.org/10.5897/AJEST2016.2132>

Silvast, M, Nurmikolu, A, Wiljanen, B & Mäkelä, E 2014, Condition-Based Track Maintenance and Rehabilitation Design Using Combined Data Analysis. in *GEORAIL 2014 : 2nd International symposium - Railway geotechnical engineering, 6-7 November 2014, France*. IFSTTAR, Ranska, pp. 649-656, International Symposium Railway geotechnical engineering, 1/01/14.

Saksala, T, Hokka, M & Kuokkala, V-T 2017, Continuum modelling of dynamic rock fracture under triaxial confinement. in *14th International Conference on Fracture, Proceedings of ICF 14 : Rhodes, Greece, June 18-23, 2017.*, 822, International Conference on Fracture, 25/08/17.

D'Ignazio, M, Phoon, KK, Tan, SA & Länsivaara, T 2016, 'Correlations for undrained shear strength of Finnish soft clays', *Canadian Geotechnical Journal*, vol. 53, no. 10, pp. 1628-1645. <https://doi.org/10.1139/cgj-2016-0037>

Saksala, T 2020, 'Demolition of concrete by thermal shock spallation: a mesoscopic numerical study based on embedded discontinuity finite elements', *INTERNATIONAL JOURNAL OF FRACTURE*. <https://doi.org/10.1007/s10704-020-00474-y>

Kerokoski, O, Rantala, T & Nurmikolu, A 2016, Deterioration mechanisms and life cycle of concrete monoblock railway sleepers in Finnish conditions. in *WCRR 2016 Proceedings: 11th World congress on railway research, 29.5-2.6.2016, Milano*. WORLD CONGRESS ON RAILWAY RESEARCH, 1/01/00.

Thakur, V, Degago, SA, Selänpää, J & Länsivaara, T 2017, Determination of remoulding energy of sensitive clays. in *Landslides in Sensitive Clays: From Research to Implementation*. Advances in Natural and Technological Hazards Research, vol. 46, Springer, pp. 97-107. https://doi.org/10.1007/978-3-319-56487-6_9

Malaska, M & Heikkilä, R 2016, 'Editorial to "The best papers from the 32nd International Symposium on Automation and Robotics in Construction and Mining (ISARC 2015)"', *Automation in Construction*, vol. 71, pp. 1. <https://doi.org/10.1016/j.autcon.2016.08.045>

Di Sante, M, Giorgetti, F, Di Buo, B, Länsivaara, T & Pasqualini, E 2018, Effects of Lime Stabilization on Hydraulic Behavior of Finnish Soft Sensitive Clays: Towards a Sustainable Geoenvironment. in *Proceedings of the 8th International Congress on Environmental Geotechnics*. vol. 1, Springer, pp. 226-234, International Congress on Environmental Geotechnics, 28/10/18. https://doi.org/10.1007/978-981-13-2221-1_19

D'Ignazio, M, Jostad, HP, Länsivaara, T, Lehtonen, V, Mansikkamäki, J & Meehan, C 2017, Effects of sample disturbance in the determination of soil parameters for advanced finite element modelling of sensitive clays. in *Landslides in Sensitive Clays: From Research to Implementation*. Advances in Natural and Technological Hazards Research, vol. 46, Springer, pp. 146-154. https://doi.org/10.1007/978-3-319-56487-6_13

D'Ignazio, M, Lunne, T, Andersen, KH, Yang, S, Di Buo, B & Länsivaara, T 2019, 'Estimation of preconsolidation stress of clays from piezocone by means of high-quality calibration data', *AIMS Geosciences*, vol. 5, no. 2, pp. 104-116. <https://doi.org/10.3934/geosci.2019.2.104>

Selänpää, J, Di Buo, B, Haikola, M, Länsivaara, T & D'Ignazio, M 2018, Evaluation of existing CPTu-based correlations for the undrained shear strength of soft Finnish clays. in *Cone Penetration Testing 2018: Proceedings of the 4th International Symposium on Cone Penetration Testing (CPT'18)*. CRC Press, pp. 571-577, International Symposium on Cone Penetration testing, 21/06/18.

Di Buo, B, Selänpää, J, Länsivaara, T & D'Ignazio, M 2018, 'Evaluation of sample quality from different sampling methods in Finnish soft sensitive clays', *Canadian Geotechnical Journal*. <https://doi.org/10.1139/cgj-2018-0066>

Di Buo, B 2020, *Evaluation of the Preconsolidation Stress and Deformation Characteristics of Finnish Clays based on Piezocone Testing*. Tampere University Dissertations, vol. 222, vol. 222, Tampere University.

D'Ignazio, M, Länsivaara, T & Jostad, HP 2017, 'Failure in anisotropic sensitive clays: a finite element study of the Perniö failure test', *Canadian Geotechnical Journal*, vol. 54, no. 7, pp. 1013-1033. <https://doi.org/10.1139/cgj-2015-0313>

Leppänen, M, Laasonen, J & Välisalo, T 2014, Finnish mine waste disposal areas. in *Geosynthetics Mining Solutions 2014*. Infomine, Geosynthetics Mining Solutions, Canada, 2/09/14.

Länsivaara, T 2018, 'Foreword', *HKIE Transactions*, vol. 25, no. 2. <https://doi.org/10.1080/1023697X.2018.1482593>

Sørensen, SN, Hansen, SF, Baun, A, Spurgeon, D, Matzke, M, Schirmer, K, Burkard, M, Dal Maso, M, Poikkimäki, M, Verschoor, A, Quik, J, Peijnenburg, W, Wigger, H & Nowack, B 2018, 'Identifying criteria for environmental risk assessment models at different stage-gates of nano-material/product innovation considering requirements of various stakeholders (TH083)' Paper presented at SETAC EUROPE 28th Annual Meeting, Rome, Italy, 13/05/18 - 17/05/18, .

Di Buò, B, D'Ignazio, M, Selänpää, J, Haikola, M, Länsivaara, T & Di Sante, M 2019, 'Investigation and geotechnical characterization of Perniö clay, Finland', *AIMS Geosciences*, vol. 5, no. 3, pp. 591-616. <https://doi.org/10.3934/geosci.2019.3.591>

Tuominen, E & Vinha, J 2015, Kapillaaristen vedenmuominaisuuksien määrittämiseen sopivan vapaan vedenimukoelaitteiston kehittäminen. in J Vinha & T Ruuska (eds), *Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015*, Tampere. Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, Tampere, pp. 233-238, Rakennusfysiikka, 1/01/00.

Loukola-Ruskeeniemi, K (ed.), Lonka, H (ed.), Ehrukainen, E, Gustafsson, J, Honkanen, M, Härmä, P, Jauhiainen, P, Kuula, P, Nenonen, K, Pellinen, T, Rintala, J, Selonen, O, Martikainen, M & Aalto, M 2015, *Kiviaines- ja luonnonkiviteollisuuden kehitysnäkymät*. Työ- ja elinkeinoministeriön julkaisuja, no. 54, vol. 2015, vol. 2015, Työ- ja elinkeinoministeriö, Helsinki.

Härmä, P, Tarvainen, T, Backman, B, Hatakka, T, Ketola, T, Kuula, P, Luoma, S, Pyy, O, Sorvari, J & Loukola-Ruskeeniemi, K 2014, *Kiviainesten otto arseenialueilla - opas kiviainesten tuottajille, maarakentajille ja viranomaisille*. GEOLOGIAN TUTKIMUSKESKUS, Espoo.

Latvala, J 2015, *Konvektiivinen lämmönsiirtyminen ratapenkereessä*. Liikenneviraston tutkimuksia ja selvityksiä, vol. 20/2015, Liikennevirasto.

Tuominen, E & Vinha, J 2015, Laastien vedenimukertoimen määrittämisen virhelähdekokeet. in J Vinha & T Ruuska (eds), *Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere*. Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, Tampere, pp. 239-244, Rakennusfysiikka, 1/01/00.

Ruuska, T & Vinha, J 2015, Laastin ja betonin lämmönjohtavuuden ja ominaislämpökapasiteetin määrittäminen lämpövirtalevyllä. in J Vinha & T Ruuska (eds), *Rakennusfysiikka 2015. Uusimmat tutkimustulokset ja hyvät käytännön ratkaisut. 20.-22.10.2015, Tampere*. Tampereen teknillinen yliopisto, rakennustekniikan laitos, rakennetekniikka, Tampere, pp. 227-232, Rakennusfysiikka, 1/01/00.

Leppänen, M, Välisalo, T (ed.) & Laasonen, J 2014, Liite 6: Yleistä kaivannaisjätealueista ja patoturvallisuudesta. in *Kaivosten stressitestit 2013*. Ympäristöministeriön raportteja, Ympäristöministeriö.

Di Sante, M, Di Buò, B, Fratolocchi, E & Länsivaara, T 2020, 'Lime treatment of a soft sensitive clay: A sustainable reuse option', *Geosciences*, vol. 10, no. 5, 182. <https://doi.org/10.3390/geosciences10050182>

Sormunen, LA & Kolisoja, P 2018, 'Mechanical properties of recovered municipal solid waste incineration bottom ash: the influence of aging and changes in moisture content', *Road Materials and Pavement Design*, vol. 19, no. 2, pp. 252-270. <https://doi.org/10.1080/14680629.2016.1251960>

Koulouri, A, Smith, ND, Vani, BC, Rimpiläinen, V, Astin, I & Forte, B 2020, 'Methodology to estimate ionospheric scintillation risk maps and their contribution to position dilution of precision on the ground', *JOURNAL OF GEODESY*, vol. 94, 22. <https://doi.org/10.1007/s00190-020-01344-0>

Kolisoja, P & Kalliainen, A 2016, 'Modelling of plastic culvert and road embankment interaction in 3D', *Procedia Engineering*, vol. 143, pp. 427-434. <https://doi.org/10.1016/j.proeng.2016.06.054>

Sekki, P, Karvinen, T & Vinha, J 2020, 'Moisture behavior of external insulated precast concrete wall panels', *Journal of Building Physics*. <https://doi.org/10.1177/1744259120925850>

Saari, A 2016, *Näkökulma-kolumni: Putkiremontit kestävät aivan liian kauan*. Sanoma Talotekniikkajulkaisut Oy.

Saksala, T, Hokka, M & Kuukkala, V-T 2017, 'Numerical 3D modelling of the effects of strain rate and confining pressure on the compressive behavior of Kuru granite', *Computers and Geotechnics*, vol. 88, pp. 1-8. <https://doi.org/10.1016/j.compgeo.2017.03.004>

Saksala, T & Jabareen, M 2019, 'Numerical modeling of rock failure under dynamic loading with polygonal elements', *International Journal for Numerical and Analytical Methods in Geomechanics*, vol. 43, no. 12, pp. 2056-2074. <https://doi.org/10.1002/nag.2947>

Mardalizad, A, Saksala, T, Manes, A & Giglio, M 2020, 'Numerical modeling of the tool-rock penetration process using FEM coupled with SPH technique', *JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING*, vol. 189, 107008. <https://doi.org/10.1016/j.petrol.2020.107008>

Saksala, T 2017, 'Numerical modelling of dynamic spalling test on rock with an emphasis on the influence of pre-existing cracks', *Rakenteiden mekaniikka*, vol. 50, no. 2, pp. 63-76. <https://doi.org/10.23998/rm.65303>

Pressacco, M & Saksala, T 2018, Numerical modelling of fracture processes in thermal shock weakened rock. in V Litvinenko (ed.), *Geomechanics and Geodynamics of Rock Masses, Volume 1 Proceedings of the 2018 European Rock Mechanics Symposium*. CRC Press, pp. 883-888, European Rock Mechanics Symposium , St. Petersburg, Russian Federation, 22/05/18.

Saksala, T 2020, 'Numerical modelling of pore-fluid-enhanced thermal spallation in granitic rock', *Rakenteiden mekaniikka* , vol. 53, no. 2, pp. 100-109. <https://doi.org/10.23998/rm.77645>

Saksala, T 2018, Numerical modelling of rock fracture with a Hoek-Brown viscoplastic-damage model implemented with polygonal finite elements. in V Litvinenko (ed.), *Geomechanics and Geodynamics of Rock Masses, Volume 1: Proceedings of the 2018 European Rock Mechanics Symposium*. CRC Press, pp. 903-908, European Rock Mechanics Symposium , St. Petersburg, Russian Federation, 22/05/18.

Saksala, T 2017, 'Numerical modelling of rock materials with polygonal finite elements', *Rakenteiden mekaniikka*, vol. 50, no. 3, pp. 216-219. <https://doi.org/10.23998/rm.64643>

Pressacco, M & Saksala, T 2020, Numerical modelling of thermal drilling of rock by heating-cooling cycle. in *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*. Proceedings in Earth and geosciences, vol. 6, CRC Press, pp. 2547-2553, International Congress on Rock Mechanics and Rock Engineering, 1/01/00. <https://doi.org/10.1201/9780367823177>

Saksala, T 2018, Numerical modelling of thermal spallation of rock. in *Proceedings of XII Argentine Congress on Computational Mechanics (MECOM2018)* . Mecánica Computacional, no. 48, vol. 36, pp. 1567-1574, Argentine Congress on Computational Mechanics, 6/11/18.

Saksala, T 2019, Numerical modelling of underground tunnel in rock under seismic loading with polygonal finite elements. in *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*. Proceedings in Earth and geosciences , vol. 4, CRC Press, pp. 4808-4814, International Conference on Earthquake Geotechnical Engineering, Rome, Italy, 17/06/19. <https://doi.org/10.1201/9780429031274>

Kolissoja, P 2018, 'Nysse tulee - Tampere3 nimittäin', *Geofoor*, no. 48, pp. 27-28.

Saksala, T 2019, 'On the Strain Rate Sensitivity of Coarse-Grained Rock: A Mesoscopic Numerical Study', *Rock Mechanics and Rock Engineering*, vol. 52, no. 9, pp. 3229-3240. <https://doi.org/10.1007/s00603-019-01772-1>

Länsivaara, T & Korkiala-Tanttu, L 2018, Otat näytteen vain kerran. in *Geotekniikan Päivä*. SGY, Geotekniikan päivä, Finland, 7/12/98.

Di Buo, B, D'Ignazio, M, Selänpää, J & Länsivaara, T 2016, Preliminary results from a study aiming to improve ground investigation data. in *Proceedings of the 17th Nordic Geotechnical Meeting: Challenges in Nordic Geotechnic 25th-28th of May*. Icelandic Geotechnical Society, Reykjavik, pp. 187-197, NORDIC GEOTECHNICAL MEETING, 1/01/00.

Selänpää, J, Buò, BD, Länsivaara, T & D'Ignazio, M 2017, Problems related to field vane testing in soft soil conditions and improved reliability of measurements using an innovative field vane device. in *Landslides in Sensitive Clays: From Research to Implementation*. Advances in Natural and Technological Hazards Research, vol. 46, Springer, pp. 121-131. https://doi.org/10.1007/978-3-319-56487-6_10

Latvala, J, Nurmikolu, A & Luomala, H 2016, 'Problems with Railway Track Drainage in Finland', *Procedia Engineering*, vol. 143, pp. 1051-1058. <https://doi.org/10.1016/j.proeng.2016.06.098>

D'Ignazio, M, Phoon, K-K, Tan, SA, Länsivaara, T & Lacasse, S 2017, 'Reply to the discussion by Mesri and Wang on "Correlations for undrained shear strength of Finnish soft clays"', *Canadian Geotechnical Journal*.
<https://doi.org/10.1139/cgj-2017-0114#.WiUscmeXcTU>

Kuula, P, Kolisoja, P, Sjöberg, M, Ketola, T, Koivisto, K, Forsman, J, Dettenborn, T & Jyvära, H 2015, *Selvitys UUMA-materiaalien teknisen kelpoisuuden arviointiin liittyvistä testausstandardeista ja -menetelmistä (1. vaihe)*, 29.12.2014. UUMA 2, Uusiomateriaalit maarakentamisessa ohjelma 2013-2015, Ramboll.

D'Ignazio, M & Länsivaara, T 2015, 'Shear bands in soft clays: strain-softening behavior in finite element method', *Rakenteiden mekaniikka*, vol. 48, no. 1, pp. 83-98.

Luomala, H 2016, *Sleepers*.

Tuominen, J & Lipping, T 2016, Spatial variability of reed bed spectra in Olkiluoto Island. in *2016 IEEE International Geoscience and Remote Sensing Symposium (IGARSS)*, July 10-15, Beijing, China. IEEE International Geoscience and Remote Sensing Symposium Proceedings, IEEE, pp. 7188-7191, INTERNATIONAL GEOSCIENCE AND REMOTE SENSING SYMPOSIUM, 2/12/16. <https://doi.org/10.1109/IGARSS.2016.7730875>

Luomala, H, Peltokangas, O & Nurmikolu, A 2014, Stiffmaster - A continuous track stiffness measurement device. in *GEORAIL 2014 : 2nd International symposium - Railway geotechnical engineering, 6-7 November 2014, France*. IFSTTAR, pp. 109-118, International Symposium Railway geotechnical engineering, 1/01/14.

D'Ignazio, M & Länsivaara, T 2016, Strength increase below an old test embankment in Finland. in *The 17th Nordic Geotechnical Meeting: Conference proceedings*. Icelandic Geotechnical Society, Reykjavik, pp. 357-366, NORDIC GEOTECHNICAL MEETING, 1/01/00.

Vatanshenas, A, Mori, T, Farhadi, MS & Länsivaara, T 2020, 'Stress-strain hysteresis shape estimation of different soils using deformation-history integral (DHI) model', *MATERIALS PHYSICS AND MECHANICS*, vol. 44, no. 2, pp. 221-228. https://doi.org/10.18720/MPM.4422020_6

Hui, N, Parajuli, A, Puhakka, R, Grönroos, M, Roslund, MI, Vari, HK, Selonen, VAO, Yan, G, Siter, N, Nurminen, N, Oikarinen, S, Laitinen, O, Rajaniemi, J, Hyöty, H & Sinkkonen, A 2019, 'Temporal variation in indoor transfer of dirt-associated environmental bacteria in agricultural and urban areas', *Environment International*, vol. 132, no. November 2019, 105069. <https://doi.org/10.1016/j.envint.2019.105069>

Kalliainen, A, Haakana, V, Korhonen, M, Mäkinen, J & Kolisoja, P 2016, *Teräsrumpujen uudet korjausmenetelmät: Halkaistu sisäputki, puolipohjaus ja pohjan betonointi*. Liikenneviraston tutkimuksia ja selvityksiä, Liikennevirasto.

D'Ignazio, M 2015, Test in scala reale su argille sensibili: l'esperienza finlandese. in *5 IAGIG, Incontro Annuale dei Giovani Ingegneri Geotecnici*. Rome, Annual Meeting of Young Geotechnical Engineers, 26/07/16.

Pakkala, T, Lemberg, A-M & Lahdensivu, J 2016, 'The effect of climate change on freeze-thaw durability of concrete structures in Finland' Paper presented at OCEANEXT : Interdisciplinary Conference, 8/06/16, pp. 53.

Du, L, Prasauskas, T, Leivo, V, Turunen, M, Kiviste, M, Martuzevicius, D & Haverinen-Shaughnessy, U 2016, The effects of improved energy efficiency on indoor environmental quality in multi-family buildings. in *Indoor Air 2016: The 14th international conference of Indoor Air Quality and Climate Ghent, Belgium July 3-8 2016.*, 737, International conference of Indoor Air Quality and Climate, 1/01/00.

Hartikainen, J, Claesson Liljedahl, L, Kolisoja, P, Kontula, A, Kouhia, R, Näslund, J-O, van As, D & Zwinger, T 2018, 'Thermal Evolution of a Holocene Arctic Environment in Western Greenland' pp. 122.

Saksala, T 2020, 'Thermal shock assisted percussive drilling: A numerical study on the single-bit axisymmetric case', *International Journal of Rock Mechanics and Mining Sciences*, vol. 132, 104365. <https://doi.org/10.1016/j.ijrmms.2020.104365>

Saksala, T & Ibrahimbegovic, A 2020, 'Thermal shock weakening of granite rock under dynamic loading: 3D numerical modeling based on embedded discontinuity finite elements', *International Journal for Numerical and Analytical Methods in Geomechanics*, vol. 44, no. 13, pp. 1788-1811. <https://doi.org/10.1002/nag.3107>

Kuula, P 2015, *Tien ja radan sitomattomissa rakennekerroksissa käytettävien kiviainesten lujuuden ja hienontumisen tutkiminen : kirjallisuusselvitys*. Liikenneviraston tutkimuksia ja selvityksiä, no. 68, vol. 2015, vol. 68, 2015 edn, Liikennevirasto, Helsinki.

Vuorimies, N, Kalliainen, A, Rossi, J, Kolisoja, P, Varin, P & Saarenketo, T 2018, *Tierakenteen rasittuminen yli 76 tonnin HCT-yhdistelmien koekuormituksissa vuosina 2015 - 2017: Liikenneviraston tutkimuksia ja selvityksiä 63/2018*. Liikennevirasto.

Luomala, H 2016, *Tutkimusohjelma Elinkaaritehokas RAta (TERA): Kokonaisvaltainen ote ratarakennetutkimukseen..*

D'Ignazio, M 2016, *Undrained shear strength of Finnish clays for stability analyses of embankments*. Tampere University of Technology. Publication, vol. 1412, Tampere University of Technology.

Juuti, P & Rajala, R 2017, 'Valkea kaupunki, mustat vedet', *Vesitalous*, vol. 2017, no. 1, pp. 15-17.

Knuuti, M & Länsivaara, T 2019, 'Variation of CPTu-based transformation models for undrained shear strength of Finnish clays', *Georisk*, vol. 13, no. 4, pp. 262-270. <https://doi.org/10.1080/17499518.2019.1644525>

Länsivaara, T 2015, Varmuuden kohdentaminen geotekniikassa, miten Eurokoodeja voisi kehittää? in *Geotekniikan päivä 2015*. SGY, Geotekniikan päivä, Finland, 7/12/98.

Kuuluvainen, H, Poikkimäki, M, Järvinen, A, Irjala, M, Dal Maso, M, Niemi, JV, Timonen, H, Keskinen, J & Rönkkö, T 2018, 'Vertical profiles of lung deposited surface area concentration of particulate matter measured with a drone in an urban street canyon' Paper presented at 11th International Conference on Air Quality - Science and Application, Barcelona, Spain, 12/03/18 - 16/03/18, .

Kuuluvainen, H, Poikkimäki, M, Järvinen, A, Kuula, J, Irjala, M, Dal Maso, M, Keskinen, J, Timonen, H, Niemi, JV & Rönkkö, T 2018, 'Vertical profiles of lung deposited surface area (LDSA) concentration measured with a drone in an urban street canyon (MP-17)' Paper presented at Aerosol Technology 2018, Bilbao, Spain, 18/06/18 - 20/06/18, pp. 73.

Inha, L, Katko, TS & Rajala, R 2019, 'Vesihuollon instituutiot vaativat taitavaa jalkapallopeleä', *Rakennustekniikka*, vol. 75, no. 3, pp. 38-40.

Katko, TS & Hukka, JJ 2016, 'Vesihuollon strateginen kehittäminen haltuun: Ydin- ja tukitoiminnon tarpeen hahmottaa selkeästi', *Kuntatekniikka*, vol. 70, no. 2, pp. 12-13.

Katko, TS, Inha, L & Rajala, R 2019, 'Vesihuolto yhdyskuntien ympäristön turvaajana: uskomuksia ja todellisuuksia', *Ympäristökasvatus*, no. 2.

Katko, TS 2018, 'WC-tilat ja -opasteet vain likana silmissämme?', *Kuntatekniikka*, vol. 72, no. 4, pp. 45.