

3D Finite Element Model as a Tool for Analyzing the Structural Behavior of a Railway Track

3D finite elements modelling of percussive rock drilling: Estimation of rate of penetration based on multiple impact simulations with a commercial drill bit

3D numerical modelling of thermal shock assisted percussive drilling

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

Artificial neural networks models for rate of penetration prediction in rock drilling

Betonisten ratapölkkyjen väsytytkuormituskokeet

Translated title of the contribution: : Fatigue loading tests of concrete railway sleepers

Characterization of fine fraction mined from two Finnish landfills

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

Comparison of community managed projects and conventional approaches in rural water supply of Ethiopia

Correlations for undrained shear strength of Finnish soft clays

Demolition of concrete by thermal shock spallation: a mesoscopic numerical study based on embedded discontinuity finite elements

Failure in anisotropic sensitive clays: a finite element study of the Perniö failure test

Investigation and geotechnical characterization of Perniö clay, Finland

Lime treatment of a soft sensitive clay

A sustainable reuse option

Mechanical properties of recovered municipal solid waste incineration bottom ash: the influence of aging and changes in moisture content

Methodology to estimate ionospheric scintillation risk maps and their contribution to position dilution of precision on the ground

Modelling of plastic culvert and road embankment interaction in 3D

Moisture behavior of external insulated precast concrete wall panels

Numerical 3D modelling of the effects of strain rate and confining pressure on the compressive behavior of Kuru granite

Numerical modeling of rock failure under dynamic loading with polygonal elements

Numerical modeling of the tool-rock penetration process using FEM coupled with SPH technique

Numerical modelling of dynamic spalling test on rock with an emphasis on the influence of pre-existing cracks

Numerical modelling of pore-fluid-enhanced thermal spallation in granitic rock

Numerical modelling of rock materials with polygonal finite elements

On the Strain Rate Sensitivity of Coarse-Grained Rock: A Mesoscopic Numerical Study

Problems with Railway Track Drainage in Finland

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

Shear bands in soft clays: strain-softening behavior in finite element method

Stress-strain hysteresis shape estimation of different soils using deformation-history integral (DHI) model

Temporal variation in indoor transfer of dirt-associated environmental bacteria in agricultural and urban areas

Thermal shock assisted percussive drilling
A numerical study on the single-bit axisymmetric case

Thermal shock weakening of granite rock under dynamic loading: 3D numerical modeling based on embedded discontinuity finite elements

Variation of CPTu-based transformation models for undrained shear strength of Finnish clays

Nysse tulee - Tampere3 nimittäin
Translated title of the contribution: : Now it comes - namely Tampere3 university

Vesihuollon instituutiot vaativat taitavaa jalkapallopeleä
Translated title of the contribution: : Water services institutions require skilful soccer playing

Vesihuollon strateginen kehittäminen haltuun
Ydin- ja tukitoiminnon tarpeen hahmottaa selkeästi
Translated title of the contribution: : Water services to be developed strategically: Recognizing the core and non-core activities of water services

Vesihuolto yhdyskuntien ympäristön turvaajana: uskomuksia ja todellisuuksia
Translated title of the contribution: : Water services safeguarding our environment: beliefs and realities

WC-tilat ja -opasteet vain likana silmissämme?
Translated title of the contribution: : WC and signs only as dirt in our eyes?

Foreword

Estimation of preconsolidation stress of clays from piezocone by means of high-quality calibration data

Evaluation of sample quality from different sampling methods in Finnish soft sensitive clays

Valkea kaupunki, mustat vedet

Editorial to "The best papers from the 32nd International Symposium on Automation and Robotics in Construction and Mining (ISARC 2015)"

Determination of remoulding energy of sensitive clays

Effects of sample disturbance in the determination of soil parameters for advanced finite element modelling of sensitive clays

Problems related to field vane testing in soft soil conditions and improved reliability of measurements using an innovative field vane device

Liite 6: Yleistä kaivannaisjätealueista ja patoturvallisuudesta

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

A method for design of sound insulation of glazed balconies against traffic noise

Kapillaaristen vedenimuominaisuuksien määrittämiseen sopivan vapaan vedenimukoelaitteiston kehittäminen

Laastien vedenimukertoimen määrittämisen virhelähdekokeet

Laastin ja betonin lämmönjohtavuuden ja ominaislämpökapasiteetin määrittäminen lämpövirtalevyllä

Anisotropic total and effective stress stability analysis of the Perniö failure test

A proposal for some modifications of EN 1997-1 design approaches

Back-calculation of the Saint-Alban A test embankment with a new modelling approach in LEM

Commercialising reclaimed materials in earthworks – guidelines for productization and the process of appending these materials in the Finnish national code of practice

Condition-Based Track Maintenance and Rehabilitation Design Using Combined Data Analysis

Continuum modelling of dynamic rock fracture under triaxial confinement

Effects of Lime Stabilization on Hydraulic Behavior of Finnish Soft Sensitive Clays: Towards a Sustainable Geoenvironment

Evaluation of existing CPTu-based correlations for the undrained shear strength of soft Finnish clays

Finnish mine waste disposal areas

Numerical modelling of fracture processes in thermal shock weakened rock

Numerical modelling of rock fracture with a Hoek-Brown viscoplastic-damage model implemented with polygonal finite elements

Numerical modelling of thermal drilling of rock by heating-cooling cycle

Numerical modelling of thermal spallation of rock

Numerical modelling of underground tunnel in rock under seismic loading with polygonal finite elements

Preliminary results from a study aiming to improve ground investigation data

Spatial variability of reed bed spectra in Olkiluoto Island

Stiffmaster - A continuous track stiffness measurement device

Strength increase below an old test embankment in Finland

The effects of improved energy efficiency on indoor environmental quality in multi-family buildings

Deterioration mechanisms and life cycle of concrete monoblock railway sleepers in Finnish conditions

Otat näytteen vain kerran

Test in scala reale su argille sensibili: l'esperienza finlandese

Translated title of the contribution: : Full-scale failure test on sensitive clays: the Finnish experience

Varmuuden kohdentaminen geotekniikassa, miten Eurokoodeja voisi kehittää?

A High-resolution Coupled Permafrost - Ice Sheet Model

Chasing measurements for real-world emissions of city buses

Identifying criteria for environmental risk assessment models at different stage-gates of nano-material/product innovation considering requirements of various stakeholders (TH083)

The effect of climate change on freeze-thaw durability of concrete structures in Finland

Thermal Evolution of a Holocene Arctic Environment in Western Greenland

Vertical profiles of lung deposited surface area concentration of particulate matter measured with a drone in an urban street canyon

Vertical profiles of lung deposited surface area (LDSA) concentration measured with a drone in an urban street canyon (MP-17)

Acceptability of contaminated soils and waste materials in landfill structures

Älypölkky, radan monitorointi, kreosoottipölkyn korvaavat vaihtoehdot

Ballast bed

Näkökulma-kolumni: Putkiremontit kestävät aivan liian kauan

Sleepers

Tutkimusohjelma Elinkaaritehokas RAta (TERA)
Kokonaisvaltainen ote ratarakennetutkimukseen

Tierakenteen rasittuminen yli 76 tonnin HCT-yhdistelmien koekuormituksissa vuosina 2015 - 2017
Liikenneviraston tutkimuksia ja selvityksiä 63/2018
Translated title of the contribution: : Road Structure Strain on Test Loads of More than 76 Tons HCT Combinations in 2015 - 2017: Research Reports of the Finnish Transport Agency 63/2018

Betonirakenteiden korjausohjeet 2016, by 41

Teräsrumpujen uudet korjausmenetelmät
Halkaistu sisäputki, puolipohjaus ja pohjan betonointi

ASROCKS-Hankkeen heikkouuttomenetelmien vertailu
Translated title of the contribution: : ASROCKS-Hankkeen heikkouuttomenetelmien vertailu

Kiviaines- ja luonnonkiviteollisuuden kehitysnäkymät

Kiviainesten otto arseenialueilla - opas kiviainesten tuottajille, maarakentajille ja viranomaisille.
Translated title of the contribution: : Kiviainesten otto arseenialueilla - opas kiviainesten tuottajille, maarakentajille ja viranomaisille.

Konvektiivinen lämmönsiirtyminen ratapenkereessä
Translated title of the contribution: : Convective heat transfer in railway embankment

Selvitys UUMA-materiaalien teknisen kelpoisuuden arviointiin liittyvistä testausstandardeista ja -menetelmistä (1. vaihe), 29.12.2014
Translated title of the contribution: : Selvitys UUMA-materiaalien teknisen kelpoisuuden arviointiin liittyvistä testausstandardeista ja -menetelmistä (1. vaihe), 29.12.2014

Tien ja radan sitomattomissa rakennekerroksissa käytettävien kiviainesten lujuuden ja hienontumisen tutkiminen : kirjallisuusselvitys
Translated title of the contribution: : Study of strength and degradation of aggregates used in unbound structural layers on roads and railways – a literature review

Evaluation of the Preconsolidation Stress and Deformation Characteristics of Finnish Clays based on Piezocone Testing

Undrained shear strength of Finnish clays for stability analyses of embankments