

ICTG 2024

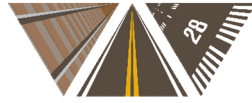


5th International
Conference on
Transportation
Geotechnics

POSTER PRESENTATION LIST

| WEDNESDAY 20 NOVEMBER 2024 | | |
|----------------------------|---|---|
| | 10:35am | 10:45am |
| Screen 1 | 115: Machine learning methods to predict resilient moduli behavior of subgrade soils Prof Anand PUPPALA | 117: Experimental and numerical investigations of geogrid-reinforced unpaved sections under repeated loads Prof Anand PUPPALA |
| Screen 2 | 97: Analysis of the deformability of railroad ballast based on the concept of the shakedown limit Prof Antonio GUIMARãES | 177: A comprehensive review on current design methods used to design controlled modulus columns Ms Thishani AMARATHUNGA |
| Screen 3 | 216: Geotechnical challenges for fast-track design and construction of a bridge foundation in an area identified as having potential for liquefaction and high groundwater Dr Somalingam BALACHANDRAN | 356: Impact of Spatial Variability of Material Properties of Compacted Geomaterials on Acceptance Dr Cesar TIRADO |
| Screen 4 | 242: Rheological consolidation characteristics of soil around tunnel under exacerbated leakage conditions based on Boltzmann function Prof Anfeng HU | 260: Laboratory evaluation of the recyclability potential of recycled plastic-modified asphalt concrete and its environmental impact A/Prof Ghim Ping ONG |
| Screen 5 | 17: Strength Evaluation of Lime Stabilized Fly Ash for pavement Construction in layered systems Prof Anirban MANDAL | 277: Shear strength characteristics of bio-cemented soil-steel interface Dr Hamid MORTAZAVI BAK |
| Screen 6 | 381: Observations of tunnelling effects on a large diameter jointed steel pipe in rock Dr Theelge Ashok PEIRIS | 306: Relationship between water absorption and fiber properties of pulp used as ground improvement material Dr Yasuo SAWAMURA |
| Screen 7 | 85: Influence of suction linear distribution on strength for unsaturated silty soil Prof Tomoyoshi NISHIMURA | |
| Screen 8 | 171: Proposed methodology for obtaining ballast layer performance indicators Mr Jorge ROJAS | 319: A new degradation model for rock blocks to simulate the compressive behaviour of soil-rock mixtures Mr Siqi SUN |
| Screen 9 | 398: Use of bamboo piles in ground improvement design Mr Thayalan NALL | 526: Influence of ballast fouling on reinforced ballasted railway track- A numerical investigation Dr Bande Giridhar RAJESH |
| | 1:15pm | 1:25pm |
| Screen 1 | 60: Numerical analysis for ballasted rail tracks: Coupled DEM-FEM approach Dr Trung NGO | 366: Effects of voiding on the performance of fixed diamond railway crossings Dr David MILNE |
| Screen 2 | 47: Spectral-based solutions for consolidation analysis of multilayered soil under various drainage boundary conditions Dr Bin-Hua XU | 371: Thermal performance optimization of ribbons-based electrically heated pavements: A numerical study. Dr Quentin Félix ADAM |
| Screen 3 | 212: Foundation Behaviour in Unsaturated Expansive soils: A review Mrs Shanujah MATHURANAYAGAM | 92: Feature value evaluation of compaction property of fine aggregate by principal component analysis Ms Akari NAGOYA |
| Screen 4 | 273: Impacts of acidic soil on infrastructure development Ms Ayesha IQBAL | 43: Bi-Directional Load Cell Testing of 1.5-Meter Diameter Bored Concrete Piles in Colluvial and Alluvial Deposits near the Darling Scarp: Insights from the Metronet, Byford Rail Extension Project in Perth Mr Anton HAMP |
| Screen 5 | 18: Geotechnical properties of unbound olive stone biochar Mr Yueji BAI | 134: Optimizing Stiffness Variation Along Railway Transitions Using Computational Approach Mr Muhammad Babar SAJJAD |

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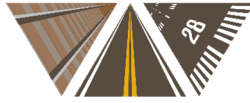


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| Screen 6 | 148: The behaviour of soft soil improved with Prefabricated Vertical Drains under cyclic loading. Ms Sachini DISSANAYAKE | 152: A Review of Progressive Soil Deformation Occurring in Integral Bridge Approaches Mr Mohammed Sulaimaan KAIZER HASSAN |
| Screen 7 | 107: An Overview of Single-Objective Optimization Models for Assessing the Performance of Railway Ballast Under Cyclic Loading Mr Srinivas ALAGESAN | 174: Sustainable solutions for overcoming challenges of railway-induced vibrations – A practical perspective Mr Saeed HOSSEINZADEH |
| Screen 8 | 69: Finite Element Analysis on the Distribution of Stress through Layered Soils Ms Isuri WIJAYARATHNE | 369: Experimental study on sandy loam's soil water retention curves through different wetting methods Mr Yixin LI |
| Screen 9 | 200: Recycled Rubber Grids for Improved Performance of Ballasted Tracks Mr Anees Raja SIDDIQUI | 563: Instrumentation Selection for Field Monitoring of Retaining Systems with Geofoam Inclusions Mr Dinesh BISHNOI, Mr S. M. DASAKA |
| | 4:05pm | 4:15pm |
| Screen 1 | 328: Fatigue Damage of Tram Track Slab in Subgrade Settlement Area Based on Damage-Finite Element Fully Coupled Method Mr Jia LI | 149: An investigation into subgrade fluidisation in transport infrastructure under cyclic loading Ms Piumali ABEYWICKRAMA |
| Screen 2 | 404: Influence of geosynthetic encasement stiffness on the deformation behavior of geosynthetic encased stone columns composite foundation under dynamic loading Prof Yewei ZHENG | 405: The implementation of fine-frictional fill in reinforced soil walls Mr Eugene LIM |
| Screen 3 | 565: Peka Peka to Otaki Expressway: Design and Performance of the Embankment Construction on Soft Soil Ms Razel RAMILO | 414: Development of Pavement with Road Surface Temperature Reduction and Rainwater Storage Effects Mr Ryohei NAGANO |
| Screen 4 | 422: Recent Innovations in Soil Nailing for Temporary Works Dr Joel GNIEL | 147: Effect of train-induced vibrations on pore water pressure development within liquefiable soils Dr Farbod YARMOHAMMADI |
| Screen 5 | 463: Data-driven Pavement Performance Modelling: A Short Review Dr Ze Zhou WANG | 91: Improving crushing behaviour of construction demolition waste aggregates using silica fume Mr Nithin JACOB JOHN |
| Screen 6 | 479: Ground Improvement Over Landfill For The Barton Park Recreational Precinct Project Mr Liam SMITH | 351: Impact of spatial subgrade variability on the mechanistic-empirical asphalt pavement design Dr Mustaque HOSSAIN |
| Screen 7 | | 165: The Evaluation of A Commercial Back-analysis Package in Condition Assessment of Railways Dr Shadi FATHI |
| Screen 8 | 144: Model Test of the Influence of Cyclic Traffic Load on the Cumulative Deformations of GRS Bridge Abutment Mr Yafei JIA, Prof Yewei ZHENG | 172: Variation in the Vertical Acceleration during Rolling Dynamic Compaction Dr Yuxiao LI |
| Screen 9 | 477: Challenges and Innovations in Advance Traffic Control System under Extreme Weather Events Dr Yuusuke MIYAZAKI | 193: Balanced Mix Design in Kansas Dr Mustaque HOSSAIN |

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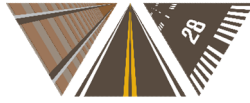


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POSTER PRESENTATION LIST

| THURSDAY 21 NOVEMBER 2024 | | |
|---------------------------|---|---|
| | 10:30am | 10:40am |
| Screen 1 | 58: Decarbonisation of Small-Scale Railway Earthwork Interventions Using PAS 2080 Life Cycle Methodology Mr Oliver JOHN | 40: Lateral resistant of different types of sleepers with and without additional stabilising measures Mr Oliver JOHN |
| Screen 2 | 393: A Deep Learning Approach for Automated Railroad Ballast Condition Evaluation Prof Erol TUTUMLUER | 396: Effect of chemical and mineralogical composition of quarry by-products on cement-stabilization efficiency using elastic wave signals Prof Erol TUTUMLUER |
| Screen 3 | 322: Simulation Study on The Construction Parameters of Ultra-Deep Diaphragm wall of High Pressurized Water Sand Layer A/Prof Yao SHAN | 297: Stiffness optimization for ballasted-ballastless track transition zones in high-speed railways Dr Wei LIU |
| Screen 4 | 313: Effect of compaction temperature on the mechanical behavior of granular base material containing RAP Mr Antônio Carlos Rodrigues GUIMARÃES | 358: Comprehensive analysis of railway pavement with box test characterization and evaluation of the resilient module of steel slag ballast for sustainable viability of railway pavements Prof Antonio GUIMARÃES |
| Screen 5 | 10: Comparing Chemical Stabilizers for Improving Iowa Granular Road Bearing Capacity Dr Halil CEYLAN | 204: Assessment of Flexible Pavement Foundation's Vulnerability Due to Heavy Rainfall in Minnesota Dr Halil CEYLAN |
| Screen 6 | 56: Stabilization of Expansive Soils With Agricultural Waste Prof Zahid HOSSAIN | 57: Liquefaction assessment of Northeast Arkansas, USA Prof Zahid HOSSAIN |
| Screen 7 | 555: Random distribution of subsoil damping ratio and interval estimation of ground vibration Dr Yanmei CAO | 206: A coupled flow deformation model for expansive soil with temperature change Mr Miao YU |
| Screen 8 | 350: Enhancing the performance of a mixed recycled aggregate for unbound pavement layers: Preliminary study Prof Castorina S. VIEIRA | 124: Advance modeling of soil cement mixing for deep excavation using Plaxis 2D concrete model Ms Wenjiu LONG |
| Screen 9 | 314: Consideration of road slope failure phenomena by finite element analysis using material constants based on in-situ tests Dr Mizuki HIRA | 129: A GPU-based DEM Contact Detection Method for Geotechnical Dense Granular Materials Mr Shuchen WANG |
| | 1:05pm | 1:15pm |
| Screen 1 | 484: Numerical simulation of triaxial tests on recycled concrete aggregates Dr Adnan Anwar MALIK | 9: Finite element study of unreinforced and reinforced unpaved roads subjected to repetitive vehicular loading Dr Arindam DEY |
| Screen 2 | 6: Assessment of water absorption and retention capacities of waste-based stabilizers to treat soft clay used as subgrade soils Mr Alula KASSA | 136: Inclusive approach in advancing sustainability in road construction Mr Stan GONSALVES |
| Screen 3 | 310: Load-bearing behaviour of geosynthetic reinforced soil bridge abutment for railways with coal OB as backfill soil: model tests Dr Sowmiya CHAWLA | 90: Effects of grain shape alterations using grinding process on compaction characteristics of granular subgrade materials Dr Toshiyasu UNNO |
| Screen 4 | 336: The influence of particle size distribution on mechanical performance of tropical soils as sub-ballast material Prof Antonio GUIMARÃES | 357: Fouled railroad ballast: characterization, mechanical behavior and finite element method simulation Prof Antonio GUIMARÃES |

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| Screen 5 | 230: Field Assessment of Lignin Based By-product Stabilized Geomaterials Dr Halil CEYLAN | 181: Development of Artificial Intelligence-Based Rutting Damage Prediction Models for Granular Roads under Superload Traffic Dr Halil CEYLAN |
| Screen 6 | 102: Short-term Thornthwaite moisture index (TMI) for Australian climate Dr Md Rajibul KARIM | 143: Direct shear testing of a hardening oil-silica sand mixture in dry condition Mr Qingjie YANG |
| Screen 7 | 113: Key role of reclamation analysis from repository planning to acceptance management in disposal pond for dredged clay Dr Masaaki KATAGIRI | 209: Analyses of Rules for Distinctions between Shallow and Deep Tunnels Prof Yanyong XIANG |
| Screen 8 | 125: The effects of temperature on micromechanical properties of hydrated Na-montmorillonite: molecular dynamics simulation Mr Bonan LI | 70: Use of Recycled Construction and Demolition Waste in the Railway Substructure: Recent Advances and Challenges Prof Maria Lurdes LOPES |
| Screen 9 | 410: Design of retaining wall structures in bringelly shale with swelling potential Dr Bo XU | 71: Fundamental study on swelling potential of construction sludge treated with cement and paper sludge-ash based stabilizers Mr Kapila Ranjith WITHANAGE |
| 3:25pm | | |
| Screen 1 | 132: Geotechnical conditions for the construction of the "Savski Square" metro station as part of the Belgrade Metro line 1 Prof Dragoslav RAKIĆ | |
| Screen 2 | 561: Dynamic analysis of pavement on foundation to surface blast loading considering soil-structure interaction Quoc Van NGUYEN | |
| Screen 3 | | |
| Screen 4 | 507: Influence of compaction moisture on the mechanical behavior of soil-gravel mixtures Prof Antonio GUIMARãES | |
| Screen 5 | 66: Numerical Modelling of Jointed Rock Foundation under Heavy Haul Train Loading Mr Majid JAZEBI | |
| Screen 6 | 214: Effects of bushfire on soil-structure interactions of the integral abutment Mr Minghao LU | |
| Screen 7 | | |
| Screen 8 | | |
| Screen 9 | | |