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Titolo	Sustainable Solutions for Railways and Transportation Engineering : Proceedings of the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018 – The Official International Congress of the Soil-Structure Interaction Group in Egypt (SSIGE) / / edited by Sherif El-Badawy, Jan Valentin
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Collana	Sustainable Civil Infrastructures, , 2366-3413
Disciplina	388.42
Soggetti	Geotechnical engineering Transportation engineering Traffic engineering Automotive engineering Management Geotechnical Engineering and Applied Earth Sciences Transportation Technology and Traffic Engineering Automotive Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Estimation of railway track longitudinal profile using vehicle-based inertial measurements -- Soil reinforcement using recycled plastic waste for sustainable pavements -- Overview of soil stabilization methods in road construction -- Sustainability of the ballasted track - a comprehensive review on reducing the use of mineral aggregates and the role of sub-ballast as a protective layer -- Impact of climate change on traffic controls in developing countries -- Reaction behavior of drivers to road markings: case study of main south road lesotho - n8 road south africa -- Resilient characteristics of asphalt stabilized soil -- Analytical study of headway time distribution on congested arterial: a case study palestine road in baghdad city -- Attenuation effect of material damping on impact vibration responses of railway concrete

sleepers -- Peridynamic modeling of rail squats -- Influence of oil palm shell (ops) on the compaction behavior and strength improvement of soil-ops composites: a pilot study -- Multi-modal transportation system using multi-functional road interchanges -- Deformation behavior for different layered cushion material after freeze-thaw cycles -- Detecting of mud pumping using tubing-floater device.

Sommario/riassunto

This volume brings together scientific experts in different areas that contribute to the railway track and transportation engineering challenges, evaluate the state-of-the-art, identify the shortcomings and opportunities for research and promote the interaction with the industry. In particular, scientific topics that are addressed in this volume include railway ballasted track degradation/settlement problems and stabilization/reinforcement technologies, switches and crossings and related derailments causes, train-induced vibrations and mitigation measures, operations, management and performance of ground transportation, and traffic congestion and safety procedures. The volume is based on the best contributions to the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018 – The official international congress of the Soil-Structure Interaction Group in Egypt (SSIGE).
