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Nota di contenuto	Chapter 1. Experimental Study on Strength Behavior of Clayey Soil Reinforced with Glass Fiber -- Chapter 2. Process for the development of multi-scale Digital Twins of local roads -- Chapter 3. Capturing moving deflection basin under a Traffic Speed Deflectometer (TSD) -- Chapter 4. Unconfined Compressive Strength of Compacted Tropical Soil Bio-treated with Bacillus Megaterium for Use in Municipal Solid Waste Containment Application -- Chapter 5. Geothermal pavements: an experimental and numerical study on thermal performance -- Chapter 6. Mechanistic performance analysis of fiber-reinforced overlays -- Chapter 7. Study on copper tailings as fine aggregate in C30 concrete pavement materials -- Chapter 8. Research Progress of Fiber Reinforced Soil -- Chapter 9. Empirical Study of Warm Mix Asphalt Incorporating Recycled Asphalt Pavement -- Chapter 10. A feasibility study towards the application of municipal waste pyrolysis oil in bituminous pavement.

## Sommario/riassunto

This volume presents challenges in transportation infrastructures and geotechniques, advancements in recycling, soil stabilization and reinforcement technologies, and assessments of roadway conditions using modern tools and techniques. The articles presented in this volume focus on fundamental investigations on various aspects of civil engineering materials and structures. The scope of this volume is the application of findings for solving problems in geotechnical, pavement, concrete and transportation engineering using through smart, green and emerging techniques. The primary audience of this work will be researchers, professionals, and practitioners around the world. This volume is based on contributions to the 6th GeoChina International Conference on Civil & Transportation Infrastructures: From Engineering to Smart & Green Life Cycle Solutions -- Nanchang, China, 2021.

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