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Toward Green and Intelligent Transportation Infrastructure: Road Non-destructive Testing and Structural Health Monitoring Technologies

Guest Editors:

Prof. Dr. Xingyu Gu

School of Transportation, Southeast University, Nanjing 211189, China

Dr. Zhen Liu

Department of Civil and Environmental Engineering, The Pennsylvania State University, University Park, PA 16802, USA

Deadline for manuscript submissions:

20 November 2024

Message from the Guest Editors

Recently, transportation infrastructures have been extensively tested using non-destructive (NDT) and structural health monitoring (SHM) technologies based on green and intelligent needs. Therefore, the aim of this Special Issue is to collect recent research advances and progress in NDT and SHM in the fields of transportation infrastructure. Additionally, papers focusing on maintenance management systems, life-cycle assessment and asset assessment of transportation infrastructures are also welcome. Topics of interest include, but are not limited to:

- 1. Innovative NDT of transportation infrastructures;
- 2. Recent developments in existing NDT technologies, including GPR, FWD, etc.;
- 3. Remote sensing techniques for damage identification;
- 4. The modeling of infrastructure performance based on NDT or multi-source data;
- 5. Green and intelligent sensors and networks for road structural monitoring;
- 6. Damage evaluation using artificial intelligence and deep learning;
- 7. Pavement dynamic monitoring using accelerated loading testing;
- 8. Unmanned aerial vehicles for road extraction and 3D modeling;
- 9. Life cycle a sessments on transportation infrastructures b set of the ests.



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Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

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