



Application of Machine Learning and Artificial Intelligence in NDE and Structural Health Monitoring of Civil Infrastructures

Guest Editor:

Dr. Kien Dinh

1. Civil Engineering Department, Embry-Riddle Aeronautical University, Daytona Beach, FL, USA
2. NDT Concrete LLC, Deltona, FL, USA

Deadline for manuscript submissions:

closed (31 May 2022)

Message from the Guest Editor

Dear Colleagues,

Nondestructive evaluation (NDE) and structural health monitoring (SHM) of civil infrastructures usually deal with an extensive amount of data obtained from the sensors employed/deployed. For example, ground-penetrating radar (GPR) technology utilizes antennas to collect a large number of A-scans for concrete bridge deck or high-definition cameras may be used to measure the physical parameters of structures such as the displacement, strain/stress, rotation, vibration, crack, and spalling. While most of such data have conventionally been analyzed by experts in each technology, many studies are being conducted to automate the data analysis using machine learning/artificial intelligence algorithms. In an effort to assemble those studies, MDPI's *Infrastructures* journal has proposed and organized this Special Issue. To be specific, this Special Issue will publish study results and research papers that present innovative uses of machine learning/artificial intelligence for processing NDE/SHM data. Additionally, it also encourages papers that provide comprehensive reviews of the literature on this topic.

Dr. Kien Dinh

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Dr. Pedro Arias-Sánchez

Applied Geotechnologies Group,
Department of Natural Resources
and Environmental Engineering,
School of Mining Engineering,
University of Vigo, 36310 Vigo,
Spain

Message from the Editor-in-Chief

You are invited to contribute a research article, review or short communication for consideration and publication in *Infrastructures* (ISSN 2412-3811). There is no restriction on the length of the papers. *Infrastructures* is published in open access format. The scientific community and general public have unlimited free access to the content as soon as it is published. *Infrastructures* is supported by the authors by the payment of article processing charges for accepted manuscripts. Please consider *Infrastructures* as an exceptional opportunity to publish your work.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, ESCI (Web of Science), Inspec, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Civil*) / CiteScore - Q1 (Building and Construction)

Contact Us

Infrastructures Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/infrastructures
infrastructures@mdpi.com