Special Issue

Data Sensing and Analysis in Design, Construction, Operation, Monitoring, and Maintenance of Built Environments

Message from the Guest Editors

The advancements in technologies, including multimodal visual sensors, wireless infrastructure sensors, wearable sensors, unmanned aerial systems, and virtual reality/augmented reality, have changed the way we tackling complex problems in civil engineering. High-resolution data collected from buildings, roads, bridges, public spaces, and other infrastructure have become increasingly available and have brought new discoveries and challenges in design, construction, maintenance, and operation of buildings and infrastructure. Making such data transparent and accessible is now critical in supporting reproducible research and generating new research opportunities for other researchers. However, the efforts to publish data in a way that enables reproducibility and reuse are limited in civil engineering and valuable data are often buried in supplementary materials. This Special Issue thus aims to publish articles describing data collection, acquisition, (re)processing, and management in civil engineering, so that future use of the data can be assured. Potential datasets include, but are not limited to, data and methods on Built environment monitoring, control, and analysis.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2020)

Data

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.0

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About the Journal

Message from the Editor-in-Chief

Data is an open access journal that publishes scientific data in a reliable, citable, and accountable manner. Data grants the opportunity to formally share valuable data, for academic credit. It covers a wide range of disciplines in which data is generated so that published data is discoverable and available for wider re-use. The journal has highly accomplished scientists from a variety of disciplines on the editorial board. The publication emphasizes clarity, honesty, quality, and novelty and has a rigorous peer-review process. We strongly encourage you to share your data vision in Data.

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