

Guest Editors:

Samad Sepasgozar, University of New South Wales (sepas@unsw.edu.au)
Issa Ramaji, Roger Williams University (ramaji.issa@gmail.com)

Call for Papers

Special Collection on BIM and Digital Technologies in Architectural Engineering: Advances and Innovative Solutions



Aims & Scope

Digital and information modeling technologies are increasingly introduced and used in different phases of building sector, from design to construction and to operation. While many practitioners are using building information modeling (BIM) in their projects, many companies seek to learn from creative solutions used in different projects. In addition, the concepts of Industry 4.0 or a wider range of initiatives encourage innovators and vendors to offer new solutions of IoT, Digital Twin, and Blockchain to the building sector. Furthermore, integration and interoperability of these technologies, particularly with BIM are some of the areas with the greatest interest in the industry. This special collection intends to include papers that address these challenges, share innovative case studies, develop theoretical models, introduce creative solutions using advanced BIM or integrate BIM with GIS or any of other digital technologies. Also, the special collection welcomes comprehensive critical reviews identifying the state-of-the-art and offering directions related to the future of BIM and digital modeling technologies in Architectural Engineering (AE) domain. While the editors of JAE are interested in a wide range of topics related to advancement and innovative solutions in BIM and emerging technologies, some specific sub-topics related are of particular interest, including (but not limited to) the following:

- BIM applications and case studies
- Digital Twin Use Cases
- BIM and Artificial Intelligence (AI), Data Science, and Data Analytics
- BIM compatibility and interoperability with Digital Twin
- BIM Interoperability in Digital Twin
- Virtual reality or augmented reality and BIM
- BIM and GIS integration and geospatial data analysis
- 3D Point Clouds and BIM
- Standards in BIM, GIS, and Digital Twin
- BIM adoption, implementation, and road maps

continued on reverse

Journal of Architectural Engineering



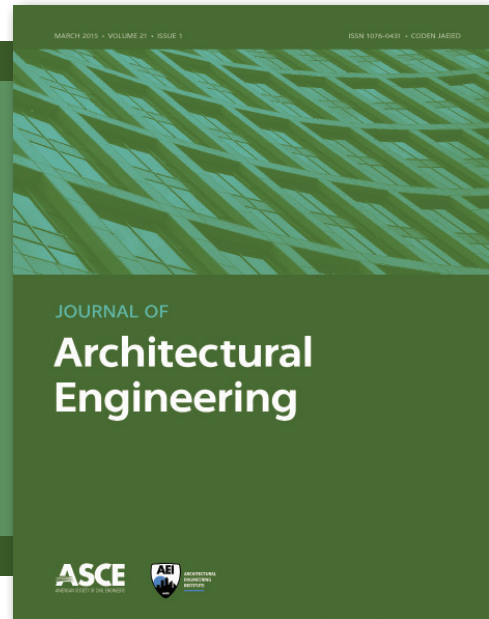
Guest Editors:

Samad Sepasgozar, University of New South Wales (sepas@unsw.edu.au)

Issa Ramaji, Roger Williams University (ramaji.issa@gmail.com)

Call for Papers

Special Collection on BIM and Digital Technologies in Architectural Engineering: Advances and Innovative Solutions



- Digital Twin implementation - challenges and potentials
- BIM and Blockchain
- Ownership of BIM and the legal aspect
- BIM, GIS, and data analytics for decision science

Submission Guidelines

Submissions will be accepted on a rolling basis (no closing date). Authors should follow the guidelines for ASCE journal submission and submit manuscripts electronically through the journal's Editorial Manager website: <https://bit.ly/2YZGPvE>

Authors should prepare their manuscripts according to guidelines found in "Publishing in ASCE Journals: A Guide for Authors" (<https://ascelibrary.org/doi/book/10.1061/9780784479018>).

When submitting, authors should indicate in the submission questions that the paper is being submitted in response to this call for papers (Special Collection on BIM and Digital Technologies in Architectural Engineering: Advances and Innovative Solutions).

Please note that this is an invitation to submit papers for peer review and does not imply acceptance for publication. Acceptance of submitted papers depends on the results of the normal refereed peer review process of the journal. All accepted papers submitted through this solicitation will be published in regular issues of the journal as they are accepted, and they will be added to a special online collection (which is similar to a print version of a special issue) and will be indexed for citations like other regular journal papers.