



Tolerance Management in Architecture, Engineering and Construction

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Message from the Guest Editors

The architecture, engineering, and construction (AEC) industry has been criticized for a lack of well-developed and widely accepted methods to provide designers and practitioners proactive insight into avoiding defects associated with dimensional and geometric variations. The existing software (e.g., BIM) is not yet developed enough to support approaches proposed in the existing AEC literature, and a reluctance prevails in the industry to use potential solutions that are not automated and/or are not supported by organizations developing standards. As a result, intratrade and intertrade tolerance related defects are amongst the most recurring defects in every building and civil engineering project. Those defects are too often dealt with at the time and place of the construction work and they considerably increase the cost of construction and maintenance, cause delays, increase material wastage, and adversely influence customer satisfaction.





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