



## Mortarless and Interlocking Structures: Towards Environmentally Friendly Construction

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### Message from the Guest Editors

Currently, construction methods use considerable amounts of cement, the production of which involves CO<sub>2</sub> emission. Another environmental impact is related to the production of waste during structural repairs and especially at the demolition stage at the end of the structure life cycle. Therefore, recycling the waste presents a serious problem.

One of the ways to mitigate these environmental impacts and turn to environmentally friendly construction is to use interlocking structures, whose building blocks have specially engineered contact surfaces to maintain structural integrity.

This Special Issue invites papers that consider both classical interlocking (through keys and connectors) and topological interlocking based on the special geometry of the blocks together with the specially designed peripheral constraint. Papers considering the design of interlocking blocks, production methods, mechanics and dynamics of interlocking structures, as well as possible applications and the assessment of the environmental impact are welcome.

**Keywords:** topological interlocking; osteomorphic blocks; vibrational damping; structural integrity; statics; dynamics; demountable structures.





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## Message from the Editor-in-Chief

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