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Additive Manufacturing: Materials and Technologies for Digital Construction

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Deadline for manuscript submissions:

closed (20 April 2024)

Message from the Guest Editors

With this Special Issue entitled “Additive Manufacturing: Materials and Technologies for Digital Construction”, we invite the scientific community to report advances and novel insights on topics that may include, but are not limited to:

Advanced technologies for 3D digitalization; Development, optimization, and characterization of eco-efficient printable materials; Novel processing, reinforcement, and post-production methods; Durability, deterioration mechanisms, and end-of-life valorization routes for 3D printed building materials; Printable multifunctional materials and compatibility with traditional building materials; AI/ML-based methods applied to development of printable materials and additive manufacturing processes; Structural analysis, modeling, and topological optimization of additively manufactured materials and construction elements; Using sensors for structural health monitoring of 3D-printed structures; Life cycle analysis and life cycle cost of additively manufactured building materials and construction elements; Integration of additive manufacturing into project management and building information modeling tool; Novel business models and case studies.



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Special Issue



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Message from the Editor-in-Chief

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