Special Issue

Importance of Machine Intelligence for Construction Material and Structural Engineering Applications

Message from the Guest Editors

The use of machine intelligence to calculate material/structural properties is gaining popularity in civil engineering. Two types of machine intelligence have been used recently, i.e., the computational one based on soft computing methods and the artificial one based on hard computing techniques. Machine intelligence can be used in structural engineering to detect damages using sensory or visual data and determine their location and extent. The attributes of concrete mix designs can also be predicted using machine intelligence. As a result, the objective of this Special Issue is to present the most recent developments in the civil engineering sector that have been made possible by more advanced machine intelligence approaches. We are delighted to welcome you to contribute to this discussion by presenting your findings on AI applications and advancements in construction material and structural engineering application problems. Applications in construction material and structural engineering are possible topics for studies. Modelling, optimization, control, measurements, analysis, and applications are all possible topics for articles.

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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