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Mathematical Modeling and Algorithmic Techniques for Engineering

Guest Editor:

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Message from the Guest Editor

Currently, mathematical modeling and algorithmic techniques are widely used in many engineering fields. For example, railway engineering applies AI models to detect machinery failures, and to alert distracted/misconducted train operators. Car engineering applies AI models and algorithms to predict behaviors of surrounding vehicles and pedestrians, and to plan driving routes with traffic flows prediction. Bioengineering applies AI models and algorithms to analyze genomic data to identify genetic variations and understand their associations with diseases for personalized medicine.

This Special Issue "Mathematical Modeling and Algorithmic Techniques for Engineering" aims to further advance the studies on engineering AI and algorithms, and invites manuscripts that explore applications of AI models and algorithms in various engineering and practical fields. The best-fitted manuscripts would include at least one of the following contents: novel AI models or algorithms, innovative applications, and discussions about new engineering problems. Manuscripts about transferring AI models or algorithms from a specific field to a different one are highly recommended.











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Message from the Editor-in-Chief

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