



Mathematical Modeling

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Message from the Guest Editor

Dear Colleagues,

The numerical and mathematical analysis of complex systems requires formal modeling and accurate signal interpretation in order to make the right decisions or systems improvements in vast application areas, such as energy, medicine, and automation. Many modern solutions using whether classical (gradient-based) or metaheuristic optimization methods for modern controllers' design in renewable energies, tumors detection in biomedical images, and fault diagnosing in industrial applications are welcome. In addition, this Special Issue covers the new recognition and classification applications based on machine learning methods that are prioritized when modest or small databases are available, as well as cutting-edge methodologies based on deep learning technics using formal mathematical analysis.

Dr. Juan Gabriel Avina-Cervantes
Guest Editor





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Message from the Editor-in-Chief

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