



Advances and New Trends in Modeling and Control of Neural Network Models

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Message from the Guest Editors

Due to the impressive applications of neural network systems in significant fields in science and technology such as pattern recognition, associative memory, optimization, linear and nonlinear programming, and computer vision, the research on their fundamental and qualitative behavior has attracted the attention of a considerable audience of professionals. As a result, modeling, analysis, and control methods for neural network models have emerged as fundamental tools in pure and applied research.

In this Special Issue, we provide an international forum for researchers to contribute original research focusing on the latest achievements and new trends in the modeling and control of neural network systems :

Deadline for manuscript
submissions:

closed (15 January 2021)

- Hopfield neural networks
- Cellular neural networks
- Bidirectional associative memory neural networks
- Lotka–Volterra neural networks
- Neural networks with delays
- Impulsive neural networks
- Cohen–Grossberg neural networks
- Reaction–diffusion neural networks
- Fractional neural networks
- Stability
- Periodicity
- Almost periodicity
- Modeling
- Control
- Applications in science and technology





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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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