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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 programing, 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:

- 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 i



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