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Artificial Neural Networks and Dynamic Control Systems

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Deadline for manuscript submissions:

closed (31 May 2024)

Message from the Guest Editors

Neural Network approaches have made significant advancements and have been effectively utilized in numerous domains such as signal processing, pattern recognition, system control, and mathematical modeling. Particularly, the use of neural networks in nonlinear system identification and control is largely motivated by their major benefits of highly parallel structure, nonlinear function approximation, fault tolerance, learning capability, and analog VLSI implementation for real-time applications. In the Special Issue, subjects of interest that deserve to be studied and deepened are as follows but not limited to:

- Study of dynamic analyzing the control systems;
- Applications of control systems in science and engineering;
- Fractional-order sliding mode control;
- Neural network control;
- Stochastic control systems;
- Adaptive and optimal control;
- Interconnected nonlinear systems;
- Micro-grid control systems;
- Multi-agent Systems;
- Study of mathematical modeling of neural networks;
- Image processing;
- Applications of type-1 and type-2 fuzzy control systems;
- Fault detection and fault tolerance control.



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Message from the Editor-in-Chief

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