



## Applications of Artificial Intelligence and Pattern Recognition

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**closed (31 March 2024)**

### Message from the Guest Editors

In the context of this special issue, researchers are encouraged to explore how mathematical modelling and analysis techniques can be applied to improve AI algorithms and systems. Optimization methods may be employed to develop efficient algorithms capable of handling large datasets in real-time. Numerical methods can be used to analyze and solve complex mathematical models that arise in AI applications. Control theory methods may be developed to ensure that AI systems operate safely and effectively in various environments. Additionally, network technology can be leveraged to enhance the scalability and performance of distributed AI systems. By utilizing these mathematical approaches, researchers can improve the theoretical foundations of AI and devise practical solutions to real-world problems.

Topics include but are not limited to:

- Computer vision;
- Pattern recognition;
- Optimization methods;
- Numerical methods for intelligent systems;
- Financial technology;
- Smart Manufacturing.





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## Message from the Editor-in-Chief

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