



## Applied Artificial Intelligence (AI)

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### **Message from the Guest Editors**

Modern life is immersed in a highly interconnected technological world. Many of the applications designed for this digital ecosystem make use of sophisticated artificial intelligence techniques to solve all kinds of problems, from optimized searching engines to advanced facial recognition features on the web, from shape recognition algorithms for image processing to pattern recognition methods for social networks and economic studies, and from complex behavioral engines for synthetic characters in computer movies and video games to advanced routines for robotics, unmanned autonomous vehicles, natural language processing, business intelligence, etc. Artificial intelligence is poised to change the world in the coming decades.

### **Keywords**

- Artificial intelligence
- Evolutionary computation
- Nature-inspired metaheuristic techniques
- Genetic algorithms
- Swarm intelligence
- Hybrid methods
- Swarm robotics
- Cognitive sciences
- Neural processing
- AI-based optimization
- AI-based medical imaging
- AI-based image processing
- AI-based shape/pattern recognition





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## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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