



## Designing of AIML (Artificial Intelligence and Machine Learning) and Convolutional Neural Network (CNN) Based Architectures and Its Various Applications in the Field of Engineering

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submissions:

**closed (5 June 2025)**

### Message from the Guest Editors

Dear Colleagues,

The Special Issue aims to present the latest research advancements and challenges in the field of Artificial Intelligence and Machine Learning (AIML). The focus is on exploring new AIML and Convolutional Neural Network (CNN) based architectures and techniques for improving their performance and efficiency, as well as case studies and practical applications in various domains such as computer vision, pattern recognition, speech recognition, natural language processing, and others. Topics of interest include, but are not limited to:

- Image recognition tasks;
- Video recognition;
- Audio recognition;
- Transfer learning techniques;
- Explainable AI techniques;
- Edge computing techniques;
- Designing of Geographical Information Systems using Machine Learning techniques;
- Design and implementation of CNN-based cloud network traffic estimation;
- Designing of CNN-based architectures for Disease Recognition for human body, flora, and fauna (vegetables, fruits, flowers, fishes, chicken);
- Freshness gradient design by AIML techniques for various fruits, vegetables, or any eatables.





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## Message from the Editor-in-Chief

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