

## Special Issue

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

### Message from the Guest Editors

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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### Guest Editors

Dr. Tanupriya Choudhury

Dr. Sachi Nandan Mohanty

Prof. Dr. Jung-Sup Um

Dr. Bappaditya Koley

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**Deadline for manuscript submissions**



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## About the Journal

### Message from the Editor-in-Chief

*Designs* (ISSN 2411-9660) is a peer-reviewed and open access journal which provides a unifying research framework for a wide range of engineering designs of disciplines and industrial applications, including mechanical engineering, electrical engineering, civil engineering, mechatronics, aerospace engineering, bioengineering, energy engineering, industrial engineering and manufacturing systems are of interest. We would like to invite you to contribute to the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

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