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SPECIAL ISSUE ADVANCED MACHINE LEARNING AND CYBERNETICS FOR MODELLING DYNAMICAL SYSTEM ENVIRONMENT

Scope of the Thematic Issue

Cybernetics deals with interlinking among systems describing multifaceted interactions (e.g., biological, economic, business, and mechanical networks), which is ubiquitous in present-day life. It discourses vital research themes that are significant to the enrichment of science and technology. Cybernetics thus affords an articulation of appliances for the designing system. By ascertaining virtues that supports the creation and use of techniques and models during the designing process, cybernetics help in modelling systems more efficiently. Machine learning emphasizes interpreting and analyzing structures and patterns in data to authorize reasoning, learning, and making decisions external of human association and permits the users to forage a computer algorithm an enormous data and has computer analysis. Machine learning determines the fundamental well-designed association between variables of the system and authenticates with a collection of learning schemes. The amalgamation of machine learning and cybernetics is intended at analyzing various distinguished forms of interactions amongst systems through the variety of mechanisms of learning systems.

Sub-Topics

This special issue deals with key strategies emerging at the intersection of cybernetics and machine learning cast in the platform of modelling dynamical systems. Innovative approaches, theoretical applications, and real-time implications of every aspect of cybernetics and machine learning are invited. The themes of the issue include, but are not constrained to the following (but not limited to):

- Unique machine learning applications.
- Reinforcement approaches
- Association of cybernetics and learning.
- Machine-human interaction.
- Adaptive network for a dynamic environment.
- Implications of machine learning strategies in modelling dynamic systems.
- Application of cybernetics in the system environment.
- Cybernetic based learning methods for schemes amongst systems.
- Biological enthused systems.
- Machine learning for designing interaction amongst systems.

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Submission Deadline

Manuscript Submission

30 Nov, 2021

Initial Decision

25 Dec, 2021

Revision Submission

25 Jan, 2022

Final Decision

25 Feb, 2022

Final Manuscript

October 15, 2022