

Preface

Special Issue on Advances in Intelligent Systems

This special issue presents the work of international research teams on new approaches to building intelligent systems.

The first two papers present new similarity measures for item-based neighborhood collaborative filtering and a genetic algorithm of green cellular network optimization.

A group of papers considers hybrid fuzzy models and systems: a fuzzy analog of the Central Limit Theorem, a new method for training fuzzy models based on the fuzzy Bayesian approach, an input-weighted multi-objective evolutionary fuzzy classifier, and fuzzy methods for comparing project situations and selecting precedent decisions.

The issue also contains original papers related to the rapidly developed last years advanced methods of Natural Language Processing, including Sentiment Analysis, Machine Learning, Deep Learning, Transfer Learning, and other methods. The papers explore the problems of concreteness rating estimation of English words, automatic language identification in mixed language texts, automatic abusive language detection, and automatic detection of opposition relations in legal texts.

The issue ends with two surveys. One survey reviews the publicly available datasets of fake news in low/medium-resourced Asian and European languages summarizing the methods used to evaluate the classifiers in identifying fake news. Another survey reviews the machine learning methods applied to physical sciences.

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Guest Editors