Guest Editorial Preface

Special Issue of Revised and Extended Papers from the International Conference on Recent Trends in Communication & Intelligent Systems

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Intelligent systems are the self-aware machines which can interact, perceive and handle its changing environment through its responsive and accurate actions. The main applications of intelligent systems are in many applications such as industry automation, robotics, military, health care, entertainment, industry, educational, virtual reality, hologram, image-video processing and pattern recognition, surveillance, transport and not limited to. Informatics under information system-sciences, supports the human machine interfaces, creations, handling and processing of small and large data for computational statistics and involvement of analytical research behind information flow/use.

The main objective of this issue is to explore the concepts with the recent research development in the field of applied informatics and Intelligent System design. Issue also target the application and innovation driven approach for new and related allied areas.

This special issue of the International Journal of Cognitive Informatics and Natural Intelligence (IJCINI) contains Six revised and extended papers from the 1st International Conference on Recent Trends in Communication & Intelligent Systems, jointly organized by Rajasthan Technical University, Kota and Arya College of Engineering & I.T., Jaipur, Rajasthan, India. The international conference on Recent Trends in Communication and Intelligent Systems has covered research-based innovations under conference theme *Intelligent Communication and Intelligent*. It would provide an excellent opportunity for Academicians, Researchers, Technocrats and Students to present their new and innovative research findings that will help in the area of Intelligent Computing & Converging Technologies, Intelligent System Communication and Sustainable Design, Intelligent Control, Measurement & Quality Assurance.

The Six papers in this special issue cover a range of aspects of Intelligent Systems & Communication. Each of these revised and extended papers has undergone full double blind peer review, prior to being selected for this special issue.

The first article Neural Network Based Named Entity Recognition for Hindi has presented a deep learning architecture based on Convolutional Neural Network (CNN) and Bi-directional Long Short Term Memory (Bi-LSTM) Neural Network which achieves 61% precision, 56% recall and 58% F-measure.

In the second article Optical Flow Based Weighted Magnitude and Direction Histograms for the Detection of Abnormal Visual Events using Combined Classifier detection of crowd escape event in video surveillance system has proposed. The proposed semi-supervised learning approaches combined the KNN and K-Means classifier framework to detect abnormalities in motion pattern like gathering, splitting, and running.

The third article Semrank - Semantic similarity based Tweets ranking approach has proposed Pagerank algorithm in which tweet analysis rely on the Word Mover's Distance measure using Word2Vec word embedding model.

Fourth Article Novel GUI Based Image Reconstruction Algorithm of EIT Imaging Technique has presented a novel image reconstruction algorithm solving a forward problem and an inverse problem along with the numerical simulations and phantom experiments as an alternate to existing EIT imaging algorithm.

The fifth article Robust Face Recognition under Partial Occlusion Based on Local Generic Features has proposed an approach based on hybrid approach of Local Generic Feature, Scale Invariant Feature Transform (SIFT) & Multi-Block Local Binary Pattern (MB-LBP) to recognize the face and used AR face database benchmark for outcome validation.

The last article A Multi-Objective Genetic Algorithm based Resource scheduling in Mobile Cloud Computing has presented a Multi-objective Genetic algorithm for Load Balancing in MCC (MOGALMCC) environment to find the optimal cloudlet before scheduling VM in another cloudlet.

We hope that the contributions will also inspire all the other readers and audiences. We are extremely happy to bring out this special issue and dedicate it to all those who have made their best efforts to contribute to this publication.

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