

Tentative Outline

Special Thematic Issue for the Journal Recent Advances in Computer Science and Communications

Title of the Thematic Issue: “Intelligence with Deep Learning Methods: Health, Environment and Smart Solutions”

Guest Editor: Dr. Charu Gupta, Ph.D.

• Scope of the Thematic Issue:

In day to day social activities, there are many challenges that can often be addressed only with innovative and intelligent models and methods. Those algorithms encompass the larger areas of artificial intelligence, machine learning, deep learning, natural language understanding, and big data manipulation. They also tackle related new scientific challenges, ranging from data capture, creation, storage, retrieval, sharing, analysis, optimization, and visualization, to integrative analysis across heterogeneous and interdependent complex resources for better decision-making, collaboration, and, ultimately, value creation. The proposed special issue would pinpoint specific DL-based methods and applications that assist smart cities and societies. It would highlight the importance of specific frameworks such as IoT-enabled framework or server less cloud frameworks that are applying DL techniques for solving societal problems such as air quality, water quality, human inequalities, and so forth. This special issue on “deep learning methods and applications for society” invites computational intelligent applications, innovative work, the solution, and research ideas based on the challenges and the limitations available in various societal domains.

Keywords: Deep Learning, Smart cities, Agriculture, Natural Language Processing, Cognitive Sciences, Healthcare, Education

Sub-topics:

The sub-topics to be covered within the issue should be provided:

- Natural language processing applications
- Intelligent healthcare system
- Technological applications of IoT and IIoT
- Deep learning in Education

Tentative titles of the articles:

- Malware Detection by Machine Learning Modified LGBM Algorithm using concept of Data Science with IoT based Model Comparison
- Machine Learning Based Short Term Electric Load Forecasting for Peak Demand Control in Smart Grid
- Exploring the Energy Efficiency Aspects of Load Balanced - Cluster based Routing using - Ant Colony Optimization for WSNs
- AL-TEA: alternative tea algorithm for healthcare image in IoT
- MDAS_DBRCC: data backup and recovery on cloud computing technique in education industry
- Vision: A Computer Vision based Secure Assignment Framework
- Modular Squeeze Net: A Modified Lightweight Deep Learning Model for Automatic Plant Disease Detection
- A smart heart disease prediction model using Deer hunting-based artificial neural network
- A Novel Model of Texture Pattern based Object Recognition using Convolutional Multi-Angular (CMA) Pattern Extraction Method
- Performance evaluation of Speech Emotion recognition based on prosodic features using various machine learning techniques
- Breast Cancer Survival Prediction from Imbalanced Dataset with Machine
- Cross Modal Information retrieval using Multilayer Bidirectional LSTM model
- Effect of Pre-processing Techniques in Predicting Diabetes Mellitus with Focus on Artificial Neural Network
- Predicting Compressive Strength of Calcined clay, Fly ash based Geo-polymer Composite using Supervised Learning Algorithm

Schedule:

- ✧ Thematic issue submission deadline: **October 30, 2022**

Contacts:

Guest Editor Name: Dr. Charu Gupta, Ph.D. (CSE)
Affiliation: Bhagwan Parshuram Institute of Technology, Delhi
Email: charu.wa1987@gmail.com