

## Tentative Outline

### Special Thematic Issue for the journal Recent Advances in Electrical & Electronic Engineering

#### Recent Developments in Computational Intelligence and Communication Technology using Machine Learning Techniques

*Guest Editor: Dr. Vikash Yadav*

• **Scope of the Thematic Issue:** This special issue will aim to discuss computational intelligence approaches, initiatives and applications in engineering and science fields (including Machine Intelligence, Mining Engineering, Modeling and Simulation, Computer, Communication, Networking and Information Engineering, Systems Engineering, Innovative Computing Systems, Adaptive Technologies for Sustainable Growth, and Theoretical and Applied Sciences). This collection should inspire various scholars to contribute research on intelligence principles and approaches in their respective research communities, while enriching the body of research on computational intelligence.

**Keywords:** Machine Learning, Computational Intelligence, Signal Processing, Innovative Computing Systems, Adaptive Technologies for Sustainable Growth, Modeling and Simulation

#### Sub-topics:

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

- Computational Intelligence
  - Neural networks
  - Fuzzy systems
  - Evolutionary computation
  - Machine Learning
  - Cloud Computing
  - Image Processing
- Applications of Computational Intelligence in:
  - Machine Intelligence
  - Mining Engineering
  - Modeling and Simulation
  - Signal Processing
- Computer, Communication Networking and Information Engineering
  - Innovative Computing Systems
  - Adaptive Technologies for Sustainable Growth
  - Theoretical and Applied Sciences

#### Tentative titles of the articles and list of contributors:

Tentative titles of the articles and list of contributors with their names, designations, addresses and email addresses should be provided.

##### **Chapter 1** Concepts of Data Mining and Process Mining

Dr. Kavi Kumar Khedo, University of Mauritius, Mauritius, k.khedo@uom.ac.mu

##### **Chapter 2** Optimizing Web Page Ranks Using Query Independent Indexing Algorithm

Dr. Kamil Riha, University of Brno, Czech Republic, rihak@feec.vutbr.cz

##### **Chapter 3** Design a Implementation of Novel Techniques for Content-Based Ranking of Web Documents

Dr. Ahmed A. Elngar, Beni-suef university, Egypt, elngar\_7@yahoo.co.uk

**Chapter 4** Web-Based Credit Card Allocation System Using Machine Learning

Valentina Emilia Balas, Arul Vicau University, Arad, Romania, balas@drbalas.ro

**Chapter 5** Automated Pattern Analysis and Curated Sack Count Leveraging Video Analysis on Moving Objects

Dr. Vicente Garcia Diaz, Universidad de Oviedo, Asturias, Spain, graciavicente@uniovi.es

**Chapter 6** DBSU: A New Fusion Algorithm for Clustering of Diabetic Retinopathy Disease

Harsh Khatter, KIET Group of Institutions, Ghaziabad, India, harsh.khatter@kiet.edu

**Chapter 7** Dynamic Simulation Model to Increase the Use of Public Transportation Using Transit-Oriented Development

Dr. Avinash Kumar Singh, University of Technology, Sydney, Australia, avinash.Singh@uts.edu.au

**Chapter 8** Text Summarization Using Extractive Techniques

Erma Suryani, Institut Teknologi Sepuluh Nopember (ITS), Indonesia, erma.suryani@gmail.com

**Chapter 9** An Efficient Deep Neural Network With Adaptive Galactic Swarm Optimization for Complex Image Text Extraction

Dr. Mukesh Prasad, University of Technology Sydney, Australia, mukesh.Prasad@uts.edu.au

**Chapter 10** Diet Recommendation Model of Quality Nutrition for Cardiovascular Patients

Dr. Carlos M. Travieso-Gonzalez, University of Las Palmas de Gran, Spain, Carlos.travieso@ulpgc.es

**Chapter 11** Dynamic Simulation Model to Improve Travel Time Efficiency

Shabrina Luthfiani Khanza, Institut Teknologi Sepuluh Nopember (ITS), Indonesia, luthfianisk@gmail.com

**Schedule:**

- ✧ Thematic issue submission deadline:
- ✧ Submission Deadline: 20/04/2022
- ✧ Notification of Acceptance: 20/05/2022
- ✧ Final Version Due: 20/6/2022

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