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Ashokkumar Patel
Nishtha Kesswani
Madhusudhan Mishra
Preetisudha Meher *Editors*

Advances in Machine Learning and Big Data Analytics I

ICMLBDA 2023, NIT Arunachal Pradesh,
India, May 29-30

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Contents

Similarity Analysis of Protein Sequences with a New 3D Graphical Representation Technique	1
Kshatrapal Singh, Ashish Kumar, and Manoj Kumar Gupta	
Enhanced Security and Robustness of Data Using Steganography	13
P. LaxmiKanth, O. Sri Nagesh, V. S. S. P. L. Balaji Lanka, and P. Ramamohan Rao	
A TTIG-Based Deep Convolution Combined GAN and CLS for Text-to-Image Synthesis	27
Raswitha Bandi, M. Sumanth, V. Lowkya, V. Manichandana, and K. Srinidhi	
Smart Agricultural Greenhouse System: A Context-Aware Application ..	47
Sujata Swain and Rajdeep Niyogi	
Improving Performance of Plant Disease Detection Using YOLOv7 and YOLOv8	57
Lakshmi Narayana Chintala, K. Sreerama Murthy, and Venkata Ramana Kondapalli	
Detection of Congenital Heart Disease from Heart Sounds Using 2D CNN-BiLSTM with Attention Mechanism	73
Ann Nita Netto, Lizy Abraham, and Saji Philip	
Automated Reviewer Assignment Process Using Machine Learning Technique	87
Sovan Bhattacharya, Arkaprava Mazumder, Ayan Banerjee, Chandan Bandyopadhyay, and Subrata Nandi	
A Method for Detecting Retinal Microaneurysms in the Fundus Using CR-SF and RG-TF	101
S. Steffi	

Machine Learning-Based Air Pollution Monitoring and Forecasting 259
 Naga Ravindra Babu M, M. Durga Satish, B. V. Prasanthi,
 S. V. V. D. Jagadeesh, J. N. S. S. Janardhana Naidu,
 and Immidi Kali Pradeep

**A Novel Parasitic Mushroom-Like Structure with High Gain
 Microstrip Patch Antenna for Broadband Applications** 273
 M. Sahaya Sheela, G. Syam Sudheer Babu, S. N. V. Sai Durga Prasad,
 and M. D. Vasanth Kumar

Facial Emotion Recognition Using Artificial Intelligence 285
 G. Sateesh, Swaroop Sana, S. V. R. Vara Prasad, and Bosubabu Sambana

**A Hybrid Machine Intelligence Demographic Feature Selection
 Approach to Improve Recommendation System in Social Domain** 303
 Bandi Vamsi, Mohan Mahanty, and Bosubabu Sambana

**An Exploratory Review of Machine Learning and Deep Learning
 Applications in Healthcare Management** 315
 Narasimha Rao Vajjhala and Philip Eappen

**Bone Fracture Prediction Using Machine Learning and Deep
 Learning Techniques** 325
 Satya Vamsi Kumar Appala, S. V. V. D. Jagadeesh, M. Durga Satish,
 and B. Sri Devi

**Plant Disease Detection Using Modern Deep Learning Approach:
 YOLOv7** 337
 Ayan Banerjee, Arkaprava Mazumder, Ayush Kumar Shaw,
 Udit Narayana Kar, Sovan Bhattacharya, and Chandan Bandyopadhyay

**Analysis of the Life Insurance Business Performance Based
 on COVID by Using Machine Learning Algorithms** 347
 P. Nithya, C. D. Nandakumar, and S. Srinivasan

**An Ensemble Model of Skin Disease Detection Using CNN
 and Transfer Learning** 357
 Bhagyalaxmi K., Vemulapally Vennela, N. Tirumal Reddy,
 and Shaik Saba Maheen

Session-Based News Recommendation System 367
 V. Vemani, Vaibhav Chemboli, and Pusarla Sindhu

A Fusion-Based Approach for Generating Image Captions 379
 Samatha J. and G. Madhavi

Comparison of Machine Learning Algorithms for Detection of Stuttering in Speech	391
Sarvagna Gudlavalleti, P. Sunitha Devi, Ramyasri Lakka, Rithika Kuchanpally, and Sai Sonali Dudekula	
The Evolutionary Impact of Pattern Recognition in Research Applications: A Wide Spectrum Survey	405
Sumit Pal, Sovan Bhattacharya, Bappaditya Mondal, Anjan Bandyopadhyay, Dola Sinha, and Chandan Bandyopadhyay	
Prediction of GATE Examination Clearance for Fresh Graduate Candidates: An Advanced Machine Learning Approach	417
Ayan Banerjee, Rachana Das, Puja Kumari, Ankita, Syed Zahir Hasan, and Sovan Bhattacharya	
Foreseeing Worker Attrition Using Machine Learning	429
P. LaxmiKanth, P. Maruthi Vara Prasad, S. Jitendra, and A. Yashwanth	
Mouse Controlling Using Eyeball Action	445
S. Kranthi Reddy, D. Shivananda Reddy, B. Suresh, and B. Pavan Kumar	
Power Quality Improvement by Using Shunt Hybrid Active Power Filter	457
D. V. Kiran, G. Neetha, G. Gowtham, K. Anusha, K. Ravali, and A. Bharath Kumar	
Integration of Renewable Energy Systems Into Utility Grid: A Review on Power Quality Issues, Mitigating Devices, and Control Algorithms	467
Joddumahanthi Vijaychandra, Santi Behera, and Lingraj Dora	
Traffic Control System-Based Congestion Control and Emergency Vehicle Clearance	481
K. Krishna Reddy, S. Noor Mohammad, J. Divya, C. Vamsi, S. Ameer Basha, and B. Suresh Reddy	
QR-Based Authentication for Login and Payment	489
J. Bibiana Jenifer, S. Sivaramakrishnan, Akhil Raula Satish, V. Preran, S. Chirag, and Shamolima Dutta	
Smart Irrigation Watering System Using IoT	497
K. Krishna Reddy, G. Faazil, K. Ajith, C. Pavani, J. Sai Tharun, D. Dhanush Gowdu, and T. Sravani	
IoT-Based Transmission Line Multiple Fault Detection and Indication to Electricity Board	503
K. Jeevan Reddy, K. Aruna, K. Manoranjitha, M. Bhavani Sankar, C. Ravindra, and G. Sireesha	

The Evolutionary Impact of Pattern Recognition in Research Applications: A Wide Spectrum Survey



Sumit Pal, Sovan Bhattacharya, Bappaditya Mondal, Anjan Bandyopadhyay, Dola Sinha, and Chandan Bandyopadhyay

Abstract Pattern recognition (PR) is the study of this particular topic. A pattern is something that separates and distinguishes one object from another. There are many practical applications for PR, including those in industrial research, plant biology, and medical science fields. The research conducted in these various domains is examined in this chapter. It briefly describes the difficulties, restrictions, achievements, and employed algorithms. It seems that this field's research has a lot of promise. Some of the results are excellent, while others fall short, but the prospect of seeing the results soon is what keeps us hopeful and inspired.

Keywords Pattern recognition · Machine learning · Deep learning · Neural networks · Plant biology · Medical EMG

S. Pal (✉)

Department of CSE, Dr. B. C. Roy Engineering College, Durgapur, India

S. Bhattacharya

Department of CSE, Data Science, Dr. B. C. Roy Engineering College, Durgapur, India

Department of CSE, National Institute of Technology, Durgapur, India

B. Mondal

Academy of Technology, Adisaptagram, Hooghly, India

A. Bandyopadhyay

Department of ECE, SR University, Warangal, India

D. Sinha

Department of Electrical Engineering, Dr. B. C. Roy Engineering College, Durgapur, India

e-mail: dola.sinha@bcrec.ac.in

C. Bandyopadhyay

Department of CSE, Data Science, Dr. B. C. Roy Engineering College, Durgapur, India

Department of CSE, University of Bremen, Bremen, Germany

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405