

6th International Conference on Deep Learning, Artificial Intelligence and Robotics (ICDLAIR 2024)

Advances in Intelligent Systems Research Volume 193

Mangalore, India and Online
16-17 December 2024

ISBN: 979-8-3313-2300-4

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Print copyright© (2025) by Atlantis Press (part of Springer Nature)
All rights reserved.
Copyright for individual electronic papers remains with the authors.

For permission requests, please contact the publisher:

Atlantis Press
Van Godewijkstraat 30
3311GX Dordrecht
The Netherlands

contact@atlantis-press.com

Printed with permission by Curran Associates, Inc. (2025)

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Peer-Review Statements	1
<i>Priyanka Ahlawat, Vijay Verma, Pratishtha Verma, Shweta Sharma</i>	
Fine Tuning Based End-to-End Indian English Speech Synthesis System.....	3
<i>Manisha Gupta, Amita Dev, Poonam Bansal</i>	
Improving Accuracy in Early-Stage Breast Cancer Detection with a Dual-Modality Segmentation Approach	17
<i>Himanshu Patel, Anand Mankodia</i>	
Space Debris Risk Prediction Model for LEO Satellites	31
<i>Arshee Naz, Karan Verma, Geeta Sikka</i>	
Optimizing Phishing Detection in Ethereum using Ensemble Learning	42
<i>Piyush K. Ghosh, Aditya Bhushan, Dharmendra Kumar, Ashutosh K. Singh</i>	
Classifying Android Malware Categories Through Dynamic System Calls Ranked via ReliefF	53
<i>Yash Sharma, Anshul Arora</i>	
Hybrid Deep Learning Framework for Real-Time Sugarcane Disease Detection	63
<i>Satyam Kumar, Lakshya Sharma, Deepti Sharma</i>	
Towards Resilient Cyber Defense: Exploring the Synergy of Adversarial Robustness and Explainable AI in NIDS.....	74
<i>Chinu, Urvashi Bansal</i>	
Exploring Multi-Stage Deep Convolutional Neural Network for Medicinal Plant Disease Diagnosis	87
<i>Karan K. Singh, Nikita Gajbhiye, Gouri S. Mishra</i>	
Clinical Uses of Ingestion Sensors and Smart Pills: A Review of the Literature	102
<i>Anita Saroj, Manmohan Mishra, Shivam Bhardwaj</i>	
Enhancing Crop Disease Detection Systems with Explainable AI Techniques for Deep Learning Models using Spectral Imaging	110
<i>Nikita Gajbhiye, Karan K. Singh, Gouri S. Mishra</i>	
An Overview of Mechanisms for Resource Pricing in a Single Cloud Provider and Federated Cloud Environment	127
<i>Sameera Dhuria</i>	
Deepfake Detection using Hybrid Model for Trust of Citizens	138
<i>Jayshree Ghorpade-Aher, Raina Basu, Siddharth Patil, Keshav Jha</i>	
Enhancing Tea Leaf Disease Classification: Leveraging Data Augmentation, Diverse Feature Extraction Techniques, and Ensemble Stacking with Machine Learning Models	149
<i>K. Somesh, C. S. S. Sai, Nithin Mude, B. Surendiran, J. Dhakshayani</i>	
PROSPECT-SCI: Performance Review and Optimization of Summarization Techniques for Scientific Content	169
<i>Y. P. Pragathi, Shraddha Khanapur, D. R. Manjunath</i>	
A Review on Standard Techniques Used in Object Detection from a Distance.....	182
<i>Vibhuti Bhardwaj, Vikhyati Singh, Mansi Mishra, Manya Bhardwaj, Khandakar F. Rahman</i>	

Enhancing Security and Scalability of IoMT Systems using Blockchain: Addressing Key Challenges and Limitations	191
<i>Harshit Kumar, Harsh Kumar, Harish, Himanshu Nandanwar, Rahul Katarya</i>	
Deep Learning Based Multi-Face Recognition System for Automatic Attendance Registering in Classrooms	203
<i>Aaditya P. Chawla, S. Ebenezer Juliet, Ankur Suman, Aqif Khan, G. Manikandan</i>	
Exercise Tracking and User Identification System for Fitness Environments.....	215
<i>Rana Gürsoy, Furkan Yüceyalçin, Muhammed A. Soydas, Hüseyin Üvet</i>	
Efficient IDS System using Hybrid Machine Learning Mechanism in IoT.....	225
<i>Tina Yadav, Devender Kumar</i>	
Indian Sign Language Communication using LSTM, MediaPipe Holistic and Llama	240
<i>Pratham Shah, Arjun Pareek, Kanika Chitnis, Vishakha Shelke, Swapnil Gharat, Sacchit Wathe</i>	
Multilingual Detection of Persuasion Techniques in Memes	251
<i>Alok Ranjan, Ishan Papnai, Jatin Gupta, Mehul Aggarwal, Anita Saroj</i>	
Evaluating the Vulnerabilities of Deep Learning Architectures: A Case Study of VGGNet, ResNet50 and InceptionV3.....	261
<i>Lovi Dhamija, Urvashi Bansal</i>	
AI-Driven Paddy Leaf Disease Classification and Prediction using DenseNet-121	272
<i>V. Sahasranamam, T. Ramesh, R. Rajeswari, A. Karthikkumar, D. Muthumanickam</i>	
Time Series Analysis and Prediction of Particulate Matter using Deep Learning Method.....	293
<i>Deepak Gaur, Rishi Kumar, M. S. Guru Prasad</i>	
Comparative Analysis of Traditional, Hybrid, and Deep Learning Approaches for Breast Cancer Classification	303
<i>Anjali Dwivedi, Nagendra Patel, Aditya Bhushan</i>	
A Robust Watermarking Approach for Securing Copyright in Watershed Images	314
<i>Harendra Singh, Maroti Deshmukh, Lalit K. Awasthi, Krishan Berwal</i>	
DT-LRoD: Decision Tree Based Low-Rate Table Overflow Detection for SDN	324
<i>Pradyuman K. Verma, Surjit Singh, Ajay Kumar</i>	
Decentralized Voting Application using Blockchain Technology.....	334
<i>Jayshree Ghorpade-Aher, Nishad Dhodapkar, Atharva Rajpurkar, Aayush Bhuvad, Mrutyunjay Patil</i>	

Author Index