

2023 International Conference on Intelligent Systems, Advanced Computing and Communication (ISACC 2023)

**Silchar, India
3-4 February 2023**



**IEEE Catalog Number: CFP23C23-POD
ISBN: 979-8-3503-9939-4**

**Copyright © 2023 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP23C23-POD
ISBN (Print-On-Demand):	979-8-3503-9939-4
ISBN (Online):	979-8-3503-9938-7

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
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

Contents

1. Single-hand Gesture Recognition of Manipuri Classical Dance of India based on Skeletonization Technique	1
2. AO2DS: A Method of Auxiliary Operational Decision-making Based on System Dynamics Simulation	9
3. Brain Tumor Classification using Deep Learning Framework	16
4. An Efficient Charging Scheduling Scheme to Enhance the Wireless Rechargeable Sensor Networks' Lifespan	20
5. Security Enhancement using Vectoring, Cryptography and Steganography	26
6. Advancements in Cyber Security and Information Systems in Healthcare from 2004 to 2022: A Bibliometric Analysis	34
7. The COVID'19 Dashboard with Implementation of Face Mask Detection and Social Distancing Detection Algorithm	40
8. Hybrid Programming Course recommendation system using Fuzzy Logic and xDeepFM	46
9. Surface Electromyography based Hand Gesture Signal Classification using 1D CNN	54
10. Transcription of Indian Classical Music using Convolutional Recurrent Neural Network and CTC Loss	60
11. Modeling a Hybrid Stemmer for Kokborok	66
12. Answer Selection Using Interactive Attention Mechanism	73
13. Processing IoT Sensor Fire Dataset Using Machine Learning Techniques	79
14. Deep Learning-Based Transfer Learning for the Detection of Leukemia	86
15. Learning Techniques for Depression Detection: A Comparative Studies	92
16. Automated Nuclei Analysis from Digital Histopathology	99
17. Performance Analysis of an ANN-based model for Breast Cancer Classification using Wisconsin Dataset	105
18. Review of Various Machine Learning and Deep Learning Techniques for Audio Visual Automatic Speech Recognition	110
19. Image Super Resolution Based on Machine Learning for Enhancing Quality Image	120
20. Hate Speech in Social Networks and Detection using Machine Learning Based Approaches	126
21. Applying a machine learning model to forecast the risks to children's online privacy and security	133
22. A review on recent techniques developed for Energy Conservation in Wireless Sensor Networks	141
23. AsCul: Annotated Dataset and a Deep Learning based framework for Assamese Cultural Object Detection	147
24. Comparative analysis of detecting over-claim permissions from android apps . .	152
25. COVID-19 Detection using Lightweight CNN Architecture on Chest X-ray images	160

26. Java Based Software Robot for Automatic E-mail Extraction	165
27. Survey on Methodological Model of IoT in Digital Forensic	169
28. Traffic Sign Recognition System using Ensemble based Deep Learning Models	175
29. Mitigating Cold Start Problem in Recommendation Systems via Transfer Learning Approach	183
30. Cyberbullying Detection using Deep Learning Techniques on Bangla Facebook Comments	189
31. Pre-trained Word Embeddings In Deep Multi-label Personality Classification Of YouTube Transliterations	196
32. Fake News Detection using Social Media Data for Khasi Language	202
33. Power of Kernel Functions, its benefits, and limitations	208
34. A Critical Study of Biometrics and Their Fusion	215
35. Beauty of Blockchain Technology in Healthcare Industry	222
36. Mathematical Morphology Adopted Automatic Detection of Ground Glass Opacities in Lung CT Images of COVID-19 Patients	228
37. Various approaches to Perceptual Image Hashing Systems-A Survey*	233
38. Enhanced Channel-Wise Homomorphic Encryption for Image Inference based on Pairwise Activation Functions	242
39. A Comparative Analysis on Diabetic Retinopathy using Deep Learning and Nature based Optimization Algorithms	249
40. Exploring Stationarity and Fractality in Stock Market Time-Series	258
41. Efficient Semantic Image Editing with Feature Shared Spatially-Adaptive Normalization	264
42. Estimation of Position of Lathe Tool Using Edge Detection Technique	271
43. Depressive and Non-depressive Tweets Classification using a Sequential Deep Learning Model	276
44. Jellyfish Search Algorithm based Optimal Routing Protocol for Energy Efficient Data Aggregation in Wireless Sensor Networks	282
45. The Role of Deep Learning in Diagnosis and Grading of Diabetic Retinopathy: A Review	288
46. An Efficient Consensus Algorithm for Blockchain-Based Federated Learning	297
47. Performance analysis of Sentiment Classification using Optimized Kernel Extreme Learning Machine	304