

International Conference
on
Computational Intelligence in Pattern Recognition (CIPR 2023)
May 27th -28th , 2023

TECHNICAL SESSION SCHEDULE

Session Name: **TS:1: Applications of Machine Learning -I**

Date: **27/05/2023 (Day 1)**

Time: **12.15 pm – 01.30 pm**

Paper Id	Paper Title	Authors	Presenting Author
10	Monthly Rainfall forecasting Using Sequential Models	Kala A, Sharon Femi P, Rajalakshmi V, Ashwini K	A.Kala
29	Method Level Code Smells Detection Using Machine Learning Models	Seema Dewangan, Rajwant Singh Rao	Seema Dewangan
35	Performance Investigation of SVM and modified SVM Algorithms for Acute Health Diagnosis	Pallavi Sharma, Rajni Bedi, Vikram Dhiman	Rajni Bedi
42	Handling Class Imbalance problem using Support Vector Machine	Mehwish Naushin, Ankur Das, Asit Kumar Das	Mehwish Naushin
86	A Wrapper based Feature Selection Approach using Particle Swarm Optimization for Software Fault Prediction	Hritik Shah, Himansu Das	Hritik Shah
97	A Supervised Learning Algorithm for Disease Prediction using Complex Network and Machine Learning	Sangita Dutta, Navnee Singh, Susmita Das, Susanta Chakraborty	Sangita Dutta
109	Prediction of Absenteeism at the Workplace: A Light Gradient Boosting Approach	Suresh Kumar Pemmada, Janmenjoy Nayak	Suresh Kumar Pemmada,

Session Name: **TS:2: Intelligent techniques for Image and Video Analysis**

Date: **27/05/2023 (Day 1)**

Time: **12.15 pm – 01.30 pm**

Paper Id	Paper Title	Authors	Presenting Author
13	Identification of Diabetic Retinopathy using Robust Segmentation through Mask R-CNN	Aryan, Suman Deb	Aryan
20	Analytical Comparison of Deep Learning Frameworks for Semantic Segmentation with Pixel Level Understanding	Ankit Deb, Shuvrajeet Das, Suman Deb	Ankit Deb
41	A Decision-Based Image Merging Technique for Server-Side Redundancy Reduction	Richa Kumari Kora, Tamal Pal	Richa Kumari Kora
78	An Overview of Segmentation Models for the Extraction of Brain Tissues from Magnetic Resonance Images	Elisabeth Thomas, S.N Kumar	Elisabeth Thomas
99	A Combined Approach of Color Correction and Homomorphic Filtering for Enhancing Underwater Images	Ahila Priyadarshini R, Ramajeyam K	Ramajeyam K
100	An Effective Pipeline for Depth Image based Hand Gesture Recognition	Taniya Sahana, Ayatullah Faruk Mollah	Taniya Sahana
101	A Coupled System for Simultaneous Image Despeckling and Segmentation	Ankit Kumar, Subit K. Jain	Ankit Kumar

Special Session Name: **TS:3: Computational Intelligence in Health care**
 Date: **27/05/2023 (Day 1)**
 Time: **12.15 pm – 01.30 pm**

Paper Id	Paper Title	Authors	Presenting Author
12	Detection and Classification of Dental Caries Using Deep and Transfer Learning	Divya Rajput, Hiral Rane, Devika Nikam, Janhavi Wagh, Anuja Jadhav	Divya Rajput
63	Analyzing Lung Diseases using CNN from Chest X-ray Images	Sanhita Dan, Arpan Garai, Samit Biswas	Sanhita Dan
80	Classifying fetal health using neural networks by boosting imbalanced classes	Perumalla Anoosha, Renuka Devi Parlapalli, Srikanth Reddy E, P.Menaga	Perumalla Anoosha
96	MEDNet-based Imbalanced Cataract Detection using ophthalmic images	Soumyajit Maity, Saranya Bhattacharjee, Ankur Das, Sankhadeep Chatterjee	Soumyajit Maity
108	Deep Convolutional Neural Network for Skin Cancer Classification	Pandit Byomakesha Dash, Ch Ravi Kishore, Venkatasai Kommu, Vysyaraju Lokesh Raju, Subhasree Mohapatra	Pandit Byomakesha Dash
119	A Mind-Driven Artificial Limb Movement Framework Using Long-Short Term Memory Algorithm	Ahona Ghosh, Sriparna Saha	Ahona Ghosh
126	Binary classification of Kidney Glomeruli using Deep Neural Networks	Basra Jehangir, Soumya Ranjan Nayak, Shaiq Wani	Basra Jehangir

Session Name: TS:4: Intelligent Computing in Network Security & Cryptography
Date:28/05/2023(Day 2)
Time: 09:30am –11:00am

Paper Id	Paper Title	Authors	Presenting Author
8	A New Technique of Cipher Type Identification using Convolutional Neural Networks	Subinoy Sikdar, Malay Kule	Subinoy Sikdar
14	Digital Watermarking using Visual Cryptography	Alina Dash, Kshiramani Naik, Sharmila Subudhi	Sharmila Subudhi
36	An Efficient Multifactor Authentication System	Shreya Verma, Mansi Singh, Kritika Chaturvedi, B.K. Tripathy	Shreya Verma
66	Machine Learning Based Phishing Detection in Heterogeneous Information Network	Priti Halder, Ankan Mallick, Shantonu Debnath, Malay Kule	Priti Halder
76	Detection of Cipher Types using Machine Learning Techniques	Abhiroop Mukherjee, Arnab Sen, Krishnendu Bera, Rajdeep Ghosh, Swarnali Mondal, Sanjana Chakravarty, Subinoy Sikdar, Malay Kule	Krishnendu Bera
79	Detection of Cyberattacks in Cyber Physical Systems using Supervised Learning and Hypergraphs	Priyanga S, Pravinraj S, Venkata Bhavana Repalle, Kannan Krithivasan and Shankar Sriram V S	Priyanga S
83	Cryptonate : Crypto-jacking Web Extension	Nilesh Patil, Dhruv Gandhi, Pranay Prajapati, Kevin Haria	Pranay Prajapati
129	Enhancing IoT Network Security with Light Gradient Boosting Machine and Gravitational Interaction Optimization for Malicious Access Detection	Geetanjali Bhoi, Bighnaraj Naik, Etuari Oram	Geetanjali Bhoi

Session Name: TS:5: Applications of Deep Learning**Date:28/5/2023(Day 2)****Time: 09:30am –11:00am**

Paper Id	Paper Title	Authors	Presenting Author
51	Gender and Hand Identification Based on Dactyloscopy using Deep Convolutional Neural Network	Diptadip Maiti, Debashis Das	Diptadip Maiti
56	A CNN based approach for Face Recognition under different orientations	Ahila Priyadarshini R, S. Hariharan, R. Jagadeeswara	Ahila Priyadarshini R
57	A Deep Learning Approach for Detection of Disease in Plant Leaves	S. Khatri, B.K. Tripathy, K.V.S. S. Kumar, V. Kumar, S. Bharti, A. Gupta, Y. Khandelwal	S. Khatri
88	Sign Language to Sentence Interpreter Using Convolutional Neural Network in Real Time	S. Seetha, C. Christlin Shanuja, Esther Daniel, Saurabh Chandra, Saurabh Raj	S. Seetha
90	A Comparative Study of Deep Learning Based Face Recognition and Emotion Detection Techniques Using Social Media Customised Cartoon Post	Jayanta Paul, Anuska Roy, Siddhartha Mallick, Jaya Sil	Anuska Roy
98	Deep Learning based Real Time Hand Gesture Recognition using Histogram of Oriented Gradient	Anurag Sahu, Tannistha Pal, Suman Deb	Anurag Sahu
102	An Improved Intrusion Detection System for the Internet of Medical Things Based on Deep Convolutional Neural Network	Pandit Byomakesha Dash, H.S. Behera, Manas Ranjan Senapati	Pandit Byomakesha Dash
112	Deep Neural Networks Scheme based Intelligent IDS System for Securing Internet of Vehicles	Ch. Ravi Kishore, D. Chandrasekhar Rao, H.S. Behera	Ch. Ravi Kishore

Session Name: **TS:6: Applications of Machine Learning- II**

Date: **28/5/2023 (Day 2)**

Time: **09:30am –11:00am**

Paper Id	Paper Title	Authors	Presenting Author
32	Q-learning based node scheduling for energy saving in WSN	Jyoti, Tamal Pal	Jyoti
58	Label Consistency based Modified Sequential Dictionary Learning based Approach for PIR Sensor based Detection of Human Movement Direction	Pubali De, Amitava Chatterjee, Anjan Rakshit	Pubali De
75	SDinIWTrack:A Novel Database for Training Self-Driving Vehicles	Swati Chowdhuri, Sriparna Banerjee, Supriya Mondal	Swati Chowdhuri
94	A Hybrid GA-PSO based Approach for Mining Top-Ranked Web Pages for Reorganization of Websites	Santosh Kumar, Tejas Kesarwani, Sumit Kumar	Santosh Kumar
95	Addressing Class Imbalance in Fake News Detection with Latent Space Resampling	Saranya Bhattacharjee, Soumyajit Maity, Sankhadeep Chatterjee	Saranya Bhattacharjee
113	Low Memory Pedestrian Detection Using Binarized Neural Networks	Mainak Bandyopadhyay, Rakesh Baral	Mainak Bandyopadhyay
127	Application of Modified Differential Evolution Technique for Automatic Generation Control Problem	Asish Kumar Panigrahi, Rabindra Kumar Sahu, Tulasichandra Sekhar Gorripotu	Asish Kumar Panigrahi
140	S-transform and Bayesian Optimized Decision Tree based Islanding Detection Approach for Distributed Generation System	Pratyush Kumar Muni, Manohar Mishra, Chinmoy Kumar Patra, Debadatta Amaresh Gadanayak, Tanmoy Parida	Manohar Mishra

Session Name: TS:7: Intelligent Approaches for Pattern Recognition**Date: 28/5/2023 (Day 2)****Time: 12noon – 01:30pm**

Paper Id	Paper Title	Authors	Presenting Author
65	Stance Classification on FIFA World Cup using Twitter Data	Aaquib Asrar, Susmita Das, Sangita Dutta	Aaquib Asrar
68	Unified feature extraction for Handwritten and Natural Image Characters: A case study using Bank Legal Check Amount and Vehicle License Plate Number Recognition	Arun M, Arivazhagan S, P Sivaramapandian, S Sivavakisan	Arun M
70	α & β -Testing of an epileptic seizure detection algorithm on pre-ictal, ictal, and inter-ictal part of EEG Signal	Khakon Das, Ashish Khare	Khakon Das
71	SBGAN: Sequential Bengali word image generation model	Piyush Kanti Samanta, Arpita Dutta, Samit Biswas	Piyush Kanti Samanta
74	A Transfer learning approach to Indian Currency Coin Recognition	R. Ahila Priyadharshini, M.Vijayraj, R.Dhanushraj	R. Ahila Priyadharshini
84	Real-Time Mood Based Music Auto-Play System from Facial Expressions	Raunaq Singh, Vipin Singh, Pooja Verma, G.V. Eswara Rao, Rajitha Bakthula	G.V. Eswara Rao
125	Integration of block-chain technology with renewable energy for sustainable development: issues, challenges & future direction	Saumendra Das, H.Swapnarekha, S.Vimal	Saumendra Das
131	Anti-Lock Braking System Using Monte Carlo Simulations	Ibidun Christiana Obagbuwa, Vincent Mohale Zibi, Mishi Makade	Ibidun Christiana Oagbuwa

Special Session Name: TS:8 : Intelligent Approaches for Data Mining Applications
Date: 28/5/2023 (Day 2)
Time: 02:00pm –03:30pm (IST)

Paper Id	Paper Title	Authors	Presenting Author
128	A Four-Valued Epistemic Logic for Metadata Modelling from Medical Articles on Pain Therapies	Simone Cuconato	Simone Cuconato
135	Artificial intelligence applied to the geography: a connectionist approach	Mauro Preda	Mauro Preda
136	Artificial intelligence, administrative proceeding, protection and enhancement of cultural property	Livio Perra	Livio Perra
137	Personalized surgical planning in Liver Surgery using virtual 3D-models	Teresa Perra, Alberto Porcu	Teresa Perra
138	Impact of AI on student's research and writing projects	Joan Rosselló-Geli	Joan Rosselló-Geli
139	Spaces, Videogames and Artificial Intelligence: a Geo-graphical Approach	Gaetano Sabato, Francesco De Pascale	Gaetano Sabato