

**4th International Conference on
Cybernetics, Cognition &
Machine Learning Applications (ICCCMLA)
(8th - 9th October 2022)**

Program Schedule



Day 1 (8th OCT 2022)

Inaugural and Keynote (9.30am - 10.30am): Seminar Hall 2

Joining link: <https://us06web.zoom.us/j/96048412325>

Chief Guest: Prof. Harilal Bhaskara Menon, Vice Chancellor, Goa University

Keynote Speaker: Dr. Venkatanaresbhabu, Kuppili, NIT Goa

**Plenary Talk (10.30am-11.00am) - Structuring Topics on Large-Scale Twitter for
Discovering People's Perceptions**

Takako Hashimoto

Vice President, Chiba University of Commerce, Research Fellow, The University of Tokyo

High Tea Break

PHYSICAL PRESENTATIONS

**Track 1: 11.00 AM -1.00PM: Seminar Hall 2
Cyber Security & Industry 4.0 Applications
Track Chairs: Nithin Kumar Y B, NIT, Goa
D S Vidhya, Don Bosco College of Engineering, Goa**

Sr No	Paper ID	Paper Title
1	409	A Review on Torque and Current Ripple Minimization Techniques in a BLDC Motor Drive for EV Applications
2	1360	CNN-LSTM-based IDS on Precision Farming for IIoT Data
3	1604	Recommendations for Secure Coding Practices in App Development
4	5532	Understanding Query Intention in Search Queries of Learners in Blended Learning Environments
5	5638	Load Forecast Anomaly Detection under Cyber-Attacks using a Novel Approach

6	6285	An Approach for Transparent Logistic Solution for Life Saving Medicines and Essential Goods using IoT and Blockchain
7	6545	UPS Power Measurement and Prediction towards Video Surveillance Systems
8	7920	Pix2Pix GAN Image Synthesis to Detect Electric Vehicle License Plate
9	8731	WASABI Contextual BOT

Track 2: 11.00 AM-1.00 PM: Seminar Hall 1

Emerging AI/ML Applications

**Track Chairs: Varsha Turkar, Don Bosco College of Engineering, Goa
Shreyas Simu, Don Bosco College of Engineering, Goa**

Sr No	Paper ID	Paper Title
1	3269	Performance Comparison of Machine Learning based Multi-Antenna Cooperative Spectrum Sensing Algorithms under Multi-Path Fading Scenario
2	3683	Detecting Flooding, Impersonation and Injection Attacks on AWID Dataset using ML based Methods
3	5135	A Deep Learning based Models to Predict PM10 Concentration
4	6903	Spatial Feature Extraction using Pre-trained Convolutional Neural Network for Hyper-spectral Image Classification
5	8645	Evaluation of Dimensionality Reduction of Hyper-spectral Images for Spatial-Spectral Classification Framework

ONLINE PRESENTATIONS

Track 1: 11.00 AM –1.00 PM

Joining Link -<https://us06web.zoom.us/j/96048412325>

Cyber Security & Industry 4.0 Applications

Track Chairs: Abhishek Appaji, BMS College of Engineering, Bangalore

Sunil Bhutada, Sreenidhi Institute of Science and Technology, Hyderabad

Sr No	Paper ID	Paper Title
1	818	Privacy and Data Control on Social Networks using Deep Learning
2	1022	Detection and Prevention of Sybil Attack in VANET using Modified ACO
3	2045	Automated Defense Surveillance using Tranquilizer
4	2231	Virtual Voice Assistant in Python (FRIDAY)

5	4962	Development of Advanced Alerting System using Arduino Interfaced with ESP32 CAM
6	4966	Homomorphic Encryption Approach for String Concatenation
7	5156	Pramanik - Cloud based Certificate Repository
8	6922	Performance Analysis of Deep Neural Network and LSTM Models for Secure Network Intrusion Detection System
9	7139	Matrix Decomposition based Digital Video Forgery Detection

Track 2: 11.00 AM-1.00 PM
Joining Link - <https://meet.google.com/mnj-gpvy-mbn>
Emerging AI/ML Applications
Track Chairs: Fahimuddin Seikh, AITS, Rajampet
Indra Riyanto, Universitas Budi Luhur, Indonesia

Sr No	Paper ID	Paper Title
1	739	Automatic Question Classifier
2	1399	Advancement in Public Distribution System
3	2094	To Detect Partially Masked or Occluded Faces by using Deep Neural Network and Support based Anchor Boxes Methods in Video Frames
4	2279	Calculating and Comparing the Weighted and Unweighted Water Quality Indices for Cauvery River Banks based on Accuracy
5	3040	Quantum Computing and Quantum Machine Learning Classification – A Survey
6	3107	Regression Analysis of Marine Water Quality Indicators
7	4278	Design and Development of Activated Carbon based Solar Air Purifier
8	5615	Road Crash Data Analysis and Prediction using Machine Learning Algorithms
9	6380	Energy Harvesting using ZnO Nanorods for Wearable Devices
10	8876	Smart Agricultural System using Internet of Things
11	9178	Aero Drums - Augmented Virtual Drums
12	9450	Implementation of Smart Water Tank Control System using Mozilla Web Things

LUNCH BREAK

Track 3: 2.30 PM-5.00 PM
Joining Link - <https://us06web.zoom.us/j/96048412325>

Smart Communication and Robotics

Track Chairs: Vinit Kumar Gunjan, CMRIT, Hyderabad
N V Rao, Ex DRDO Scientist, Hyderabad

Sr No	Paper ID	Paper Title
1	1589	Improving Effectiveness of Parallel Computing with Smart Cache Utilization for Energy Saving and Temperature Reduction in Chip Multiprocessors
2	2304	Robust Cascade Controller for Load Frequency Control of a Standalone Micro-grid
3	2775	Behavioral Analysis of ROS Motion Planners Integrated with Robotics Middleware Framework (RMF)
4	3817	EEG-based Integrated Solution for Drivers and Safe Transportation
5	4623	IoT Enabled Smart Fleet Management
6	4969	Evolution and Classification of Power Management Strategies for Hybrid Electric Vehicles
7	5141	Visual Wrench Reference and Feedback for Robot-Assisted Minimally Invasive Surgery
8	7264	Digital Dashboard for Electric Vehicles
9	7559	Accident Rescuing System for Vehicles in Road Traffic: A Smart Phone Application
10	8230	Comparative Study on Design of AI-based Communication Protocol for VANET
11	8755	Design and Development of Autonomous Driving Car using Nvidia Jetson Nano Developer Kit
12	9236	Smart Transportation- A Futuristic Intelligent Mobility Approach towards Smarter Cities
13	9803	A comparative Study of the Simulations of an LQG Controller and Adaptive Controller Design with MRAS based on Modified MIT Rule
14	9973	Efficient Data Transmission Protocol using Post-Computation Selection Combining Scheme for Reliable, Low-latency Wireless Network

Track 4: 2.30 PM-5.00 PM

Joining Link - <https://meet.google.com/mnj-gpvy-mbn>

Data Science and Cognition

Track Chairs: Syed Musthak Ahmed, S R University, Warangal

Nataraj R, Don Bosco Institute of Technology, Bengaluru

Sr No	Paper ID	Paper Title
1	1324	Recent Advancements in Finger Vein Biometrics: A Review
2	1412	Real Time Gesture Detection using Convolutional Neural Network
3	1424	K-Nearest Neighbour (KNN) Algorithm based Cooperative Spectrum Sensing in Cognitive Radio Networks
4	7203	Optimized Weighted Strategy for Co-operative Decision at Fusion Centre in CRN

5	7942	Fingerprint De-blurring and Liveness Detection using Fdeblur-GAN and Deep Learning Techniques
6	8341	Writer Identification using Handwriting Samples
7	8377	Document Text Analysis and Recognition of Handwritten Telugu Scripts
8	8706	News Popularity Prediction with Machine Learning
9	8833	Existing Approaches in Ear Biometrics
10	8898	Identifying Similar Sentences When Processed by Apache Spark
11	9136	Implementation of AI/ML for Human Emotion Detection using Facial Recognition

12	9741	GPT-K: A GPT based Model for Generation of Text in Kannada
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Day 2 (9th OCT 2022)

Track 5: 11.00 AM –1.00 PM

Joining Link -<https://us06web.zoom.us/j/96048412325>

Cybernetics and Image Processing

**Track Chairs: Vivek Deshpande, Vishwakarma Institute of Information Technology, Pune
Sangeeta Singh, Vardhaman College of Engineering, Hyderabad**

Sr No	Paper ID	Paper Title
1	342	Decisive Analysis of Fixed Power Allocation Coefficients in a PD-NOMA Network
2	667	Blockchain based Medical Image Processing Mechanism
3	989	Text Augmentation based Imbalance Learning for Unstructured Text Data
4	1288	Forensic Evidence Collection from Windows Host using Python based Tool
5	1368	Advancements in Simulator Technologies for Power Plant Operator Training
6	2033	HTML Code Generation from Website Images and Sketches using Deep Learning based Encoder-Decoder Model
7	4152	A Novel Approach to Quantify and Compute Gait Analysis Parameters of Quadrupeds

8	4248	Indian Sign Language Interpreter using Natural Language Processing
9	5015	Feature Extraction and Classification of Objects using ML Model for FMCW Radar Signal
10	6133	Composite Filtering and Morphology for Optic Disc Segmentation from Retinal Images

Track 6: 11.00 AM-1.00 PM
Joining Link - <https://meet.google.com/mnj-gpvy-mbn>
Engineering in Medicine and Healthcare
Track Chairs: Jyothsna G, BDRC, Hyderabad
B N Ajay, SJBIT, Bangalore

Sr No	Paper ID	Paper Title
1	637	Artificial Intelligence towards Parkinson's Disease Diagnosis: A systematic Review of Contemporary Literature
2	712	Parkinson's Disease Classification from Speech Signal Parameters using Deep Neural Network
3	738	Meditation for Happy and Healthy Life: A Quantitative Assessment using Heart Rate Variability using ECG
4	955	Averting Frustration in Geriatric Patients through Identification, 3D Mapping and Navigation using Machine Learning
5	2126	A Simple User-friendly Android Application for Oxygen and Blood Pressure Measurement
6	2280	Prediction of Cardiovascular Diseases using Neural Networks and Machine Learning
7	2459	Activity based Remote Health Monitoring System
8	2546	A Machine Learning Model to Identify Best Blood Plasma Proteins for Early Detection of Alzheimer's Disease

LUNCH BREAK

Track 7: 2.30 PM-5.00 PM
Joining Link - <https://us06web.zoom.us/j/96048412325>
Deep Learning in Sentiment Analysis and Neural Networks
Track Chairs: Vinit Kotak, VJTI, Mumbai
K Shirisha, Sreenidhi Institute of Science and Technology, Hyderabad

Sr No	Paper ID	Paper Title
1	426	City-wide Spatio-temporal Effect on AQI

2	471	Medium Term Solar Power Prediction using Stacked LSTM based Deep Learning Technique
3	580	Sentiment Analysis of Covid-19 Tweets using Twitter Database – A Global Scenario
4	2036	An Overview of Machine Learning Techniques for Evaluation of Pavement Condition
5	3449	Neural Network based Reinforcement Learning for Maximum Power Extraction of Wind Energy
6	5701	Statistical Scrutiny of the Prediction Capability of Different Time Series Machine Learning Models in Forecasting the Cryptocurrency Prices
7	6146	Weighted Matrix Mapped CNN Model for Optimizing the Sentiment Prediction
8	7104	Cuckoo Search Optimization and Long-Term Memory-based Stock Price Prediction Model with Improved Classification Performance.
9	7726	A study on Deep Learning based Soil Classification
10	7833	Development of Plant-leaf Disease Classification Model using Convolutional Neural Network
11	9756	A Hybrid Approach based on Metaheuristics and Machine Learning for Tomato Plant Leaf Disease Classification
Track 6 Contd: 2.30 PM-5.00 PM Joining Link - https://meet.google.com/mnj-gpvy-mbn Engineering in Medicine and Healthcare Track Chairs: Jyothsna G, BDRC, Hyderabad		
9	3597	A Triple Band Printed Wearable Antenna for Remote Healthcare Monitoring Device
10	4216	Prediction of Autism Spectrum Disorder using Random Forest Classifier in Adults
11	5481	Optimized Deep Learning technique for Brain Tumor Segmenting, Contouring and Detection
12	5797	ML-MT: A Study of e-Health Application Framework by Machine Learning Techniques
13	6098	Detection of Skin Cancer using Artificial Intelligence & Machine Learning Concepts
14	6257	Assistive System for the Visually Impaired using Multiple Cameras and Sensors
15	7674	Detecting Diabetes Mellitus from Tongue Image Hybrid Features and Neural Network Classifier
16	8265	Design & Development of a Robust -- The Health Wealth App
17	9728	A Solution for Prediction and Tracking of Alzheimer Disease using Secure and Energy Efficient Internet-of-Things

