

The 5th Edition of International Conference on Communications and Cyber-Physical Engineering (ICCCE)–2022

Conference Website: <http://www.intcommcon.com/>

Conference Date: 29th-30th April 2022



5th International Conference on Communications and Cyber-Physical Engineering (ICCCE – 2022)

29th-30th April 2022

Venue: CMR Engineering College, Hyderabad, India-501401

Program Schedule

Day 1, 29th April 2022 (Friday)

10:00AM to 11:00AM	Inauguration	Block-A, Auditorium Joining Link: https://us06web.zoom.us/j/97315866288?pwd=cXB3V29LY09xWmdsT2d5MXcvYlg2dz09	SPOC: Mrs. M. Ashwitha Reddy Mrs. Amita Mishra
HIGH TEA (11:00AM TO 11:15AM)			
11:15AM to 12:00PM	Expert Talk-1: Dr. Mohd Fauzi Bin Othman, Universiti Teknologi Malaysia (UTM), Malaysia	Title: Artificial Intelligence, Machine Learning and Deep Learning: Current Research, Technology, Application and its Challenge Block-A, Auditorium Joining Link: https://us06web.zoom.us/j/97315866288?pwd=cXB3V29LY09xWmdsT2d5MXcvYlg2dz09	SPOC: Mr.D.Uma Vishveshwar Mr.K.Vijaya Babu
12:00PM to 12:45PM	Expert Talk-2: Dr. Munesh Chandra Trivedi, NIT, Agartala, India	Title: Metamorphic Cryptography Block-A, Auditorium Joining Link: https://us06web.zoom.us/j/97315866288?pwd=cXB3V29LY09xWmdsT2d5MXcvYlg2dz09	SPOC: Mr.D.Uma Vishveshwar Mr.K.Vijaya Babu
LUNCH (12:45PM-1:30PM)			
Parallel Session I			
1:30PM to 2:45PM	Track-1: Machine Learning and Computational Intelligence Session Chair-1: Dr. Mohd Fauzi Bin Othman, UTM Malaysia Session Chair-2: Dr. Dilshad Ansari, CMR College of Engineering & Technology, Hyderabad	Block-A, Room No. 204 Joining Link: meet.google.com/rcv-yjkk-pce	SPOC: Mr. D.Uma Vishveshwar (Mobile No. 7989916388)
1:30PM to 2:45PM	Track-2: Applied Artificial Intelligence Session Chair-1: Dr. Pradeep Kumar, MANNU Hyderabad Session Chair-2: Dr. Vijendra	Block-A, Auditorium Joining Link: meet.google.com/xeg-otun-rje	SPOC: Mr. Ch. Ravi Sheker (Mobile No. 9550671718)

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	Kumar Solanki, CMR Institute of Technology, Hyderabad		
1:30PM to 2:45PM	Track-3: Healthcare and Security Systems Session Chair-1: Dr. Munesh Kumar Chandra, NIT Agartala Session Chair-2: Dr. Suresh Merugu, CMR College of Engineering & Technology, Hyderabad	Block-A, Room No. 209 Joining Link: meet.google.com/ygc-zmrf-iug	SPOC: Mr. Mrutyunjaya Yalawar 8884755151 Prof. Raghunath Reddy 9885220824
02:45PM to 03:30PM	Expert Talk-3: Dr. Pradeep Kumar, MANNU, Hyderabad, India	Title: Spam Mail Filtering Using Machine Learning Technique Block-A, Auditorium Joining Link: https://us06web.zoom.us/j/97315866288?pwd=cXB3V29LY09xWmdsT2d5MXcvYlg2dz09	SPOC: Dr. Rajesh Tiwari Mrs. Y. Prathima
HIGH TEA (03:30PM TO 03:45AM)			
Parallel Session II			
03:45PM to 05:15PM	Track-4: Data Analytics and Information System Session Chair-1: Dr. Kumar K, VIT Vellore, TN Session Chair-2: Dr. Uma Dulhare, Muffakham Jah College of Engineering & Technology, Hyderabad	B-303 Joining Link: meet.google.com/rcv-yjkk-pce	SPOC: Mrs. Sumera Jubeen 8099163205 Prof. Raghunath Reddy 9885220824
03:45PM to 05:15PM	Track-5: IoT and Smart Cities Session Chair-1 : Dr. Jangirala Srinivas, O. P. Jindal Global University, Haryana Session Chair-2 : Dr. Anil Kumar Sagar, Sharada University, UP	B-303 Joining Link: meet.google.com/xeg-otun-rje	SPOC: Mrs. G. Sumalatha (Mobile No. 9059483150)
03:45PM to 05:15PM	Track-6: Deep Learning and Applications Session Chair-1: Dr. Ashwani Kumar, Sreyas Institute Of Engineering and Technology Session Chair-2: Dr. Anand Vihari, VIT University, Vellore, India	B-310 Joining Link: meet.google.com/ygc-zmrf-iug	SPOC: Mr. Mrutyunjaya Yalawar 8884755151 Mrs. Y. Prathima 9908127000
03:45PM to 05:15PM	Track-7: Cloud Computing Session Chair-1: Dr. Sandeep Kumar Panda, ICFAI University, Hyderabad Session Chair-2: Dr. Bipin Kumar Rai, ABES Institute of Technology, Ghaziabad, U.P.	B-310 Joining Link: meet.google.com/fmx-iuxq-ftw	SPOC: Mr.K.Vijaya Babu 9866021091 Mr. Shyam Sunder 8309830267

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Day 2, 30th April 2022, Saturday

09:30AM to 10:15AM	Expert Talk-4: Dr. Somanath Tripathi, IIT, Patna, India	Title: Applied Cryptography & Blockchain (Tentative) Joining Link: https://us06web.zoom.us/j/97315866288?pwd=cXB3V29LY09xWmdsT2d5MXcvYlg2dz09	SPOC: Mrs. K.Mamatha
High Tea (10:15AM-10:30AM)			
Parallel Session III			
10:30AM to 12:00PM	Track-8: Communication Systems Session Chair-1: Dr. Ivo Rumenov Draganov, Technical University of Sofia, Bulgaria Session Chair-2: Dr. Prabhat Thakur, University of Johannesburg & Symbiosis IT, Pune	B-303 Joining Link: meet.google.com/act-sauc-ffd	SPOC: Mr.D.Uma Vishveshwar (Mobile No. 7989916388)
10:30AM to 12:00PM	Track-9: Data Mining and Applications Session Chair-1: Dr. Girish Sharma, BPIPS, New Delhi Session Chair-2: Dr. Geetanjali, Netaji Subhas Institute of Technology, New Delhi	B-303 Joining Link: meet.google.com/rcv-yjkk-pce	SPOC: Mrs. E. Lakshmi Prasanna 8309738855 Mrs. Y. Prathima 9908127000
10:30AM to 12:00PM	Track-10: Pervasive Computing Session Chair-1: Dr. Dinesh Kumar Saini, Manipal University, Jaipur Session Chair-2: Dr. Ashutosh Sharma, Southern Federal University, Russia	B-310 Joining Link: meet.google.com/xeg-otun-rje	SPOC: Mr.K.Vijaya Babu 9866021091 Mr. Shyam Sunder 8309830267
LUNCH 12:00PM-12:30PM			
12:30PM to 01:15PM	Expert Talk-5: Dr. Vipin Balyan, Cape Peninsula University of Technology, Bellville Campus, Cape Town, South Africa	Title: NOMA for 5G and Beyond Network Joining Link: https://us06web.zoom.us/j/97315866288?pwd=cXB3V29LY09xWmdsT2d5MXcvYlg2dz09	SPOC: Mrs. Amita Mishra
01:15PM to 2:00PM	Expert Talk-6: Dr. Subhas Mukhopadhyay, Macquarie University, Australia	Title: IoT Enabled Sensors to generate data to monitor Health, Home and Environmental conditions Joining Link: https://us06web.zoom.us/j/97315866288?pwd=cXB3V29LY09xWmdsT2d5MXcvYlg2dz09	SPOC: Mrs. Amita Mishra
Parallel Session IV			
02:00PM to 03:30PM	Track-11: Big Data Analytics and its Applications Session Chair-1: Dr. Neeraj Kumar, Thapar University, Punjab Session Chair-2: Dr. Ajoy Kr. Khan, Mizoram Central University	B-303 Joining Link: meet.google.com/fmx-iuxq-ftw	SPOC: Mr. Mrutyunjaya Yalawar 8884755151 Prof.

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			Raghunath Reddy 9885220824
02:00PM to 03:30PM	Track-12: Social Computing Session Chair-1: Dr. Manoj Kumar, GLA Mathura, UP Session Chair-2: Dr. Mangal Singh, Symbiosis Institute of Technology, Pune	B-303 Joining Link: meet.google.com/act-sauc-ffd	SPOC: Mr. D. Uma Vishveshwar (Mobile No. 7989916388)
03:30PM to 04.15PM	Expert Talk-7: Dr. Stefan Mozar, Dynexsys, Sydney, Australia	Title: (Awaited) Joining Link: https://us06web.zoom.us/j/97315866288?pwd=cXB3V29LY09xWmdsT2d5MXcvYlg2dz09	SPOC: Mrs. Y. Prathima
High Tea (04:15PM to 04:30PM)			
04:30PM to 05.30PM	Closing Ceremony Block-A, Auditorium Joining Link: https://us06web.zoom.us/j/97315866288?pwd=cXB3V29LY09xWmdsT2d5MXcvYlg2dz09 Expert Talk-8: Dr. Saraju Mohanty, University of North Texas, USA Title: Recent Technologies in Consumer technology or computing systems (Tentative) Best Paper Awards Information on CTP and Timeline of Publication		SPOC: Mrs. Amita Mishra and Mrs. K. Mamatha

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Technical Programme Schedule for ICCCE -2022

Track-1(T1): Machine Learning and Computational Intelligence

Date: 29-04-2022

Time: 1:30PM to 2:45PM

Venue: Block A, Room No. 204 - CMR Engineering College

Joining Link: meet.google.com/rcv-yjkk-pce

Session Chair-1: Dr. Mohd Fauzi Bin Othman, UTM Malaysia

Session Chair-2: Dr. Dilshad Ansari, CMR College of Engineering & Technology, Hyderabad

S.No.	Paper ID	Paper Title
1	63	Deep Learning Framework for Object Detection from Drone Videos
2	120	Fake Currency detection: A Survey on different methodologies using Machine Learning Techniques
3	121	Bi-directional DC-DC Converters and Energy Storage Systems of DVR – an Analysis
4	132	Intrusion Detection System Using Ensemble Machine Learning for Digital Infrastructure
5	150	Fundus Image Processing For Glaucoma Diagnosis Using Dynamic Support Vector Machine
6	189	A Smart Healthcare System Using Internet Of Things And Deep Learning For CVD Disease Diagnosis
7	192	SOFTWARE DEFECT PREDICTION SURVEY INTRODUCING INNOVATIONS WITH MULTIPLE TECHNIQUES
8	194	A Machine Learning And Fuzzy Heterogeneous Data Sources For Traffic Flow Prediction System
9	198	Summarization of Unstructured Medical Data for Accurate Medical Prognosis
10	227	Impact of COVID-19 Pandemic on Indian Stock Market Sectors

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Conference Date: 29th-30th April 2022

Track -2(T2): Applied Artificial Intelligence

Date: 29-04-2022

Time: 1:30PM to 2:45PM

Venue: Block A, Auditorium, CMR Engineering College

Joining Link: meet.google.com/xeg-otun-rje

Session Chair-1: Dr. Pradeep Kumar, Maulana Azad National Urdu University, Hyderabad

Session Chair-2: Dr. Vijendra Kr. Solanki, CMR Institute of Technology, Hyderabad

S.No.	Paper ID	Paper Title
1	33	Cross-Cultural Translation Studies in the Context of Artificial Intelligence: Challenges and Strategies
2	58	DLCNN Model with Multi Exposure Fusion for Underwater Image Enhancement
3	61	Design Of Low Voltage Pre-Settable Adiabatic Flip-Flops Using Novel Resettable Adiabatic Buffers
4	62	Raspberry Pi based Smart Mirror
5	66	VoteChain: Electronic Voting with Ethereum for Multi-Region Democracies
6	75	Detection And Intimation Of Animals/Birds From Live Videos To Aid The Farmers And Forest Officers In Taking The Precautionary Measures To Protect Their Lives And Assets
7	130	Cloud based Landslide Detection and Alerting nearby People by using IoT Technology
8	183	A Brain-Inspired Cognitive Control Framework For Artificial Intelligence Dynamic System
9	190	Covid Patient Monitoring System for Self-Quarantine Using Cloud Server based IoT Approach

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Track -3(T3): Healthcare and Security Systems

Date: 29-04-2022

Time: 1:30PM to 2:45PM

Venue: Block A, Room No. 209 - CMR Engineering College

Joining Link: meet.google.com/ygc-zmrf-iug

Session Chair-1: Dr. Munesh Kumar Chandra, NIT Agartala

Session Chair-2: Dr. Suresh Merugu, CMR College of Engineering & Technology, Hyderabad

S.No.	Paper ID	Paper Title
1	32	Intercloud: Utility-Oriented Federation of Cloud Computing Environments through Different Application Services
2	46	A Review on various Cloud-based Electronic Health Record Maintenance system for COVID-19 Patients
3	88	Traffic Prioritization in Wired and Wireless Networks
4	170	A secured land registration system using smart contracts
5	171	A constructive feature grouping approach for analyzing the feature dominance to predict cardiovascular disease
6	180	Machine learning techniques to web based intelligent learning diagnosis system
7	181	Phishing Website Detection based on Hybrid Resampling KMeansSMOTENCR and Cost-Sensitive Classification
8	196	A Survey on Wireless Channel Access Protocols
9	204	A novel hybrid algorithm for effective quality of service using fog computing
10	250	Sign language interpreter

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Track -4 (T4): Data Analytics and Information System

Date: 29-04-2022

Time: 03:45 PM to 05:15 PM

Venue: CMR Engineering College

Joining Link: meet.google.com/rcv-yjkk-pce

Session Chair-1: Dr. Kumar K, VIT University, Vellore, India

Session Chair-2: Dr. Uma Dulhare, Muffakham Jah College of Engineering & Technology, Hyderabad

S.No.	Paper ID	Paper Title
1	20	Measuring effectiveness of CSR activities to reinforce brand equity by using graph-based analytics
2	85	Optimal DG placement for loss reduction using fuzzy and grey wolf algorithm
3	98	An Intrusion Detection System Using Feature Selection Based on Red Kangaroo Mating Algorithm
4	135	Video retrieval by content using machine learning
5	167	Design IoT-based smart agriculture to reduce vegetable waste by computer vision and machine learning
6	187	Social & Mental Well Being- Covid19 after effects Survey & Data Analysis
7	242	Unsupervised Sentiment Classification Method Based on Multi-level Sentiment Information Extraction using CRBSA Algorithm
8	259	Pre-term birth classification using KNN machine learning algorithm
9	261	Hand gesture recognition using CNN
10	276	Dietary Assessment by Food Image Logging Based on Food Calorie Estimation Implemented Using Deep Learning

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Conference Date: 29th-30th April 2022

Track -5 (T5): IoT and Smart Cities

Date: 29-04-2022

Time: 03:45 PM to 05:15 PM

Venue: CMR Engineering College

Joining Link: meet.google.com/xeg-otun-rje

Session Chair-1: Jangirala Srinivas, O. P. Jindal Global University, Haryana

Session Chair-2: Dr. Anil Kumar Sagar, Sharada University, UP

S.No.	Paper ID	Paper Title
1	15	Pedestrian and Vehicle Detection for Visually Impaired People
2	21	Design of automatic brightness technology in vehicles
3	67	Several Routing Protocols For S-iot (Satellite-Internet-of-Things) Network, Applications, and Advantages: Review
4	91	Low Area-High Speed architecture of efficient FIR filter using Look Ahead Clock Gating Technique
5	203	Design and implementation of car driving controller system for physically handicapped
6	228	Advance Warning and Alert System for detecting lightning risk to reduce human disaster using IoT platform -A proposed model to support Rural India
7	257	A Novel Low Power NMOS Schmitt Trigger Circuit Using Voltage Bootstrapping and Transistor Stacking
8	260	IoT based air quality monitoring system with server notification
9	279	Neck gesticulate based wheelchair/vehicle direction movement control system to assist geriatrics
10	282	Improved Numerical Weather Prediction Using IoT and Machine Learning

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Conference Website: <http://www.intcommcon.com/>

Conference Date: 29th-30th April 2022

Track-6 (T6): Deep Learning and Applications

Date: 29-04-2022

Time: 03:45 PM to 05:15 PM

Venue: CMR Engineering College

Joining Link: meet.google.com/ygc-zmrf-iug

Session Chair-1: DR. Ashwani Kumar, Sreyas Institute Of Engineering and Technology

Session Chair-2: Dr. Anand Vihari, VIT University, Vellore, India

S.No.	Paper ID	Paper Title
1	12	Deep Learning Neural Networks for detection of Onset Leukemia from Microscopic images
2	45	Efficient Image Watermarking using particle swarm optimization and Convolutional Neural Network
3	59	Machine Learning Approach Based Plant Disease Detection and Pest Detection System
4	72	Performance of Cooperative Spectrum Sensing Techniques in cognitive radio based on Machine Learning
5	96	COVID-19 Virus spread prediction using machine learning techniques
6	97	Pre-Collision Assist with Pedestrian Detection using AI
7	108	Assessment of Deep Sequence Models for Characterization and Prediction of Cloud Workloads
8	110	Image Aesthetic Score Prediction using Image Captioning
9	129	Loan Approval Prediction based on Deep Learning Approach
10	145	Sentiment Analysis of Customer on a Restaurant using Review in Twitter

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Conference Date: 29th-30th April 2022

Track-7 (T7): Cloud Computing

Date: 29-04-2022

Time: 03:45 PM to 05:15 PM

Venue: CMR Engineering College

Joining Link: meet.google.com/fmx-iuxq-ftw

Session Chair-1: Dr. Sandeep Kumar Panda, ICFAI University, Hyderabad

Session Chair-2: Dr. Bipin Kumar Rai, ABES Institute of Technology, Ghaziabad, U.P.

S.No.	Paper ID	Paper Title
1	4	An Approach of Queuing Theory towards a Virtual Grid Cloud Environment
2	6	A Methodology for selecting smart contract in blockchain based applications
3	17	Protecting AWS Cloud-Based Media Files Using Digital Signatures
4	128	A Hybrid Cryptosystem of Vigenère and Hill Cipher Using Enhanced Vigenère Table
5	153	A Case Study of Western Maharashtra with detection and removal of cloud influence: Land Use and Land Cover Change Detection.
6	246	In Cloud Computing Detection of DDoS Attack using AI Based Ensembled Techniques
7	247	Securing Data in Internet of Things (IoT) Using Elliptic Curve Cryptography
8	255	Design And Implementation Of Security Enhancement For Trusted Cloud Computing

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Track-8 (T8): Communication Systems

Date: 30-04-2022

Time: 10:30 AM to 12:00 PM

Venue: CMR Engineering College

Joining Link: meet.google.com/act-sauc-ffd

Session Chair-1: Dr. Ivo Rumenov Draganov, Technical University of Sofia, Bulgaria

Session Chair-2: Dr. Prabhat Thakur, University of Johannesburg, South Africa

S.No.	Paper ID	Paper Title
1	13	Design of 4x4 Butler Matrix for 5G High Band of 26GHz
2	70	Design and Analysis of Multiband Self- Complimentary Log-Periodic Tripole Antenna (LPTA) for S and C Band based Radar Applications
3	73	Unified Power Quality Conditioner for V-V connected Electrified Railway Traction Power Supply System
4	107	A Review on Location Based Routing Protocols in Wireless Sensor Networks
5	123	A Higher-Order Sliding Mode Observer for SOC Estimation with Higher-Order Sliding Mode Control in Hybrid Electric Vehicle
6	172	High-Band Compact Microstrip Patch Antenna for 5G Wireless Technologies
7	185	Meandered Shape CPW feed based SIW Slot Antenna for Ku-Band Applications
8	200	Speed Control of Hybrid Electric Vehicle by using Moth Flame Optimization
9	233	BLDC motor and its speed characteristics analysis based on Total harmonic Distortion

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Conference Date: 29th-30th April 2022

Track-9 (T9): Data Mining and Applications

Date: 30-04-2022

Time: 10:30 AM to 12:00 PM

Venue: CMR Engineering College

Joining Link: meet.google.com/rcv-yjkk-pce

Session Chair-1: Dr. Girish Sharma, BPIPS, New Delhi

Session Chair-2: Dr. Geetanjali, Netaji Subhas Institute of Technology, New Delhi

S.No.	Paper ID	Paper Title
1	99	Heart Stroke Prediction Using Machine Learning Models
2	103	Machine Learning based Pavement Detection for Visually Impaired People
3	115	A Comparison of different Machine Learning Techniques for Sentiment Analysis in Education Domain
4	124	Analysis of Reversible Data Hiding Techniques For Digital Images
5	177	Regression for Predicting COVID-19 Infection Possibility Based on Underlying Cardiovascular Disease A Medical Score Based Approach
6	191	Wood images classification based on various types of K-NN classifier
7	199	A Screening Model for the Prediction of Early Onset Parkinson's Disease from Speech Features
8	207	Hierarchical Learning of Outliers

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Track-10(T10): Pervasive Computing

Date: 30-04-2022

Time: 10:30 AM to 12:00 PM

Venue: CMR Engineering College

Joining Link: meet.google.com/xeg-otun-rje

Session Chair-1: Dr. Dinesh Kumar Saini, Manipal University, Jaipur

Session Chair-2: Dr. Ashutosh Sharma, Southern Federal University, *Russia*

S.No.	Paper ID	Paper Title
1	112	Pedestrian Crossing Signal Detection System for the Visually Impaired
2	165	Real-Time Indian Sign Language Recognition using Feature Fusion
3	179	A Secure multi-tier framework for healthcare application using blockchain and IPFS
4	230	Fetal Health Prediction Using Machine Learning Approach
5	244	Timestamp prediction using Enhanced Adaptive Correlation Clustering Based Recommender System For The Long Tail Items
6	256	Multi-domain Opinion Mining: Authenticity of Data Using Sentiment Mining
7	266	Brain Tumor Detection using Image Segmentation and CNN
8	270	Automatic Alert and Triggering System to Detect a Persons' Fall off the Wheelchair

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Conference Date: 29th-30th April 2022

Track -11(T11): Big Data Analytics and its Applications

Date: 30-04-2022

Time: 2:00 PM to 3:30 PM

Venue: CMR Engineering College

Joining Link: meet.google.com/fmx-iuxq-ftw

Session Chair-1: Dr. Neeraj Kumar, Thapar University, Punjab

Session Chair-2: Dr. Ajoy Kr. Khan, Mizorum Central University

S.No.	Paper ID	Paper Title
1	156	A Survey on Deep learning enabled Intrusion Detection System in Internet of Things
2	173	A Cryptocurrency price prediction study using Deep learning and Machine learning
3	215	Image Analysis for human trafficking prediction
4	223	Ensemble Learning Techniques and their Applications: An Overview
5	237	An Exploratory Comparative Analysis of Various Recommender Systems
6	239	Calculating the Traffic Density of real time video using Moving object Detection
7	258	Dynamic Channel Allocation in Wireless Personal Area Networks for Industrial IoT Applications
8	265	Community-based Question Answering site using MVC Architecture for Rapid Web Application Development

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Track-12(T12): Social Computing

Date: 30-04-2022

Time: 2:00 PM to 3:30 PM

Venue: CMR Engineering College

Joining Link: meet.google.com/act-sauc-ffd

Session Chair-1: Dr. Manoj Kumar, GLA Mathura, UP

Session Chair-2: Dr. Mangal Singh, Symbiosis Institute of Technology, Pune

S.No.	Paper ID	Paper Title
1	43	ZACube-2 Mission Operations Analysis
2	144	Integrating InceptionResNetv2 model and Machine Learning Classifiers for Food Texture Classification
3	163	Design and Development of Multithreaded Web Crawler for Efficient Extraction of Research Data
4	169	Analytical Study of Hybrid Features and Classifiers for Cattle Identification
5	178	Evolution of 5G: Security, Emerging Technologies & Impact
6	197	Sahaay-A Web Interface to Improve Societal Impact
7	210	Smart ECG Monitoring System based on IoT
8	253	Noise Removal Filtering Methods for Mammogram Breast Images
9	283	WA-SCV Analysis for Scope Creep Management in a Software Project Requirements

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