2023 12th International Conference on Advanced Computing (ICoAC 2023)

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Anna University- Chennai
Department of Computer Technology, MIT Campus
12th IEEE International Conference on Advanced Computing -ICoAC 2023
Programme Schedule *Revised*
18-19th August 2023

Time	Friday, 18th August2023
09.00am-09.30am	**Inauguration-ICoAC2023**
Session 1 **Rajam Hall** **MIT Campus** **09.45am-10.30am**	**Keynote Address** **Prof. Vijayan Sugumaran** **Department of Decision and Information Sciences,** **Oakland University, Rochester, Michigan, USA**
10.30am-10.45am	**Tea Break**

Session 2A (Physical mode) Conference Hall CB Block 18/08/2023 10.45am-12.15pm

Oral Paper Presentations on **Intelligent Computing/Network Science**
Session Chairs: **Dr. R. Gunasekaran & Dr. S. Uma Maheswari**
Session Coordinator: **Ms. M Jenila Vincent & Mr. E Selvam**

PG	ID	TITLE
1	305	**Classification of Natural Disasters Using Decision Tree Techniques** *Senthilnayaki B, Sarawathi N, Sathiyavathi V, M. Shanmuga Priya and L SaiRamesh*
6	90	**ComPuDTIK: Computational Prediction of Drug-Target Interactions in Kinases** *Uma E, Yashwanth A, Pravinbabu B, Surendhar P and Mala T*
14	271	**Resource Management in Serverless Computing - Review, Research Challenges, and Prospects** *Kannan Govindarajan and André De Tienne*
19	294	**Detection of pulmonary disorders with CNN model using knowledge distillation technique** *Keerthana R, Jayaprakash S, Guru Raman C and Monisha Raghu*
26	266	**Data Cataloging based SINDy Approach for weather forecasting.** *J, JohnMathuram,Regis X,Padiyarajan V*
31	197	**AI-based Network Flooding Attack Detection in SDN using Multiple Learning Models and Controller** *Neelavathy Pari S, Ritika E C, Ragul B and Bharath M*
38	246	**Computer Vision Based Shopping Assistant** *Jayashree P, Siddarth M, Jerfin Nishanth and Rishikesh D*

Session 2B (Online) Meeting Hall CB Block 18/08/2023 10.45am-12.15pm

Oral Paper Presentations on **Social Computing/Intelligent Computing**
Session Chairs: **Dr. P. Kola Sujatha & Dr. M. Nava barathy (Online)**
Session Coordinator: **Ms. Anusha Jayasimhan**

PG	ID	TITLE
45	43	**Predicting Thyroid Dysfunction Using Machine Learning Techniques** *Thirumala Akash K, Mohammed Usman F, Nitesh Kumar T, Mohammed Riyaz Ahmed and RaveendraGudodagi*
53	67	**A Hybrid Approach to Support the Detection of Autism Spectrum Disorder (ASD) through Machine Learning and Deep Learning Techniques** *Meghna Manoj and Praveen Joe*
60	188	**An Effective Automated Framework for Oral Cancer Detection by Enhanced Convolutional Neural Networks** *santhiya M, Sindhuja M, Jegatha R and Manikandan Jothi*
67	82	**PRISM: Predicting Student Performance using Integrated Similarity Modeling with Graph Convolutional Networks** *Raja lakshmiPillaiyar, Geetha A V, Priyanka D and Mala T*
74	104	**Building of Computationally Effective Deep Learning Models using Attention-Guided Knowledge Distillation** *Ashwath V A, Anish Sai Ayyagari, Deebakkarthi C R and Arumuga Arun R*
82	153	**Non-Invasive Parameter-Based Machine Learning Models for Accurate Diagnosis of Congenital Heart Disease** *Rishika Anand, S.R.N. Reddy and Dinesh Kr. Yadav*
88	176	**Detection of epileptic seizure using hybrid machine learning algorithms** *P Velvizhy, Ria Bas Len, Rajeshwari N and Kanimozhi K*
95	74	**Ontology as an Open World Assumptions and Its Futuristic View** *Sujata Pardeshi, Suresh Kumar Billakurthi and SushoptiGawade*

12.15 pm–1.00 pm	LUNCHBREAK

Conference Hall CB Block 1.00pm–1.45pm	Keynote Address Mr. L. R. Prakash Senior Director, CDAC, Chennai		

	Oral Paper Presentations on **Intelligent Computing** Session Chairs: **Dr. M. R. Sumalatha & Dr. S. Chithra** Session Coordinator: **Ms. R Keerthana & Ms. Mubeena begum**		
	PG	**ID**	**TITLE**
Session 3A **(Physical mode)** **Conference Hall** **CB Block** **18/08/2023** **1.45pm–3.15pm**	102	99	**Detection of Breast Cancer using Curvelet Transform and Adaptive Particle Swarm Optimization Technique** *Meena L C, Joeprathap P M and Sankara Narayanan S*
	107	241	**A Tuned Random Forest Model for Selecting Significant Genes** *Valliyammai Chinnaiah, Arthi T, Sreeshreya M and Porsiya R*
	113	259	**Multiclass Classification and Defect Detection of Surfaces using Modified-YOLO** *Deepti Raj G and Dr Prabadevi B*
	119	53	**Sports video data classification using Yolov5 model.** *Rathish Manivannan and Amsaprabhaa M*
	124	318	**Comparing EMG Signal Classification with Raw and Time Domain Feature Extracted Data** *VaishaaleeTrishaa B and Sathiesh Kumar V*
	129	319	**Reconstruction of Temporal Envelope using 1D FLCNN LSTM Speech Enhancement model** *M R Anitha, B Vijayalakshmi and N S Bhuvaneswari*
	135	34	**An Intelligent prediction of Customer Churn in Telecom Industry using Business Analytics Classification Models** *Shradhdha Gohil, ManasAmeria and Vergin M*

	Oral Paper Presentations on **High Performance Computing** Session Chairs: **Dr. E. Sivasankar (Online) & Dr. P. Varalakshmi** Session Coordinator: **Mr. R. Praveen**		
	PG	**ID**	**TITLE**
Session 3B **(Online)** **Meeting Hall** **CB Block** **18/08/2023** **1.45pm–3.15pm**	142	198	**Gait Based Human Activity Recognition using Hybrid Neural Networks** *Rukesh Asokan, Viswanath Pathmanaban, ShenbagaShudhan VRR and AbiramiMurugappan*
	148	258	**Classification of Agricultural Fruit Imagery using CHAR** *Keerthana R, Thilaksurya B and Krishna Padmanabhan*
	154	206	**Breast Cancer Detection Framework Using Evolutionary Search and SVM Classifier** *Pruthvi Patel, Tina Babu and Rekha Nair*
	160	217	**Unveiling Emotions through Handwriting: A Data Analysis Approach** *Muskan Azmi, Shaik Lubna Fathima, and Mohammed Wasid*
	166	222	**Evaluation of Wavelet Transformed features on detection of Epileptic Seizures using 2D Scalogram Images of EEG Signals** *S Ramya, M Uma*
	172	235	**Effective Identification and Diagnosis of Malaria Parasite in Blood Cell Images Through Deep Learning Approach** *PramitBrata Chanda, Sarthak Chatterjee, Ritoja Sen, Sunidhi chandra ,Abhinaba Das, Subir Kumar Sarkar*
	179	292	**Time Series Analysis of Urban Expansion Using Land-Use and Land-Cover Change Detection of LANDSAT Imagery for Pune District of Maharashtra** *Anjali AJagtap;D. K. Shedge;Varsha Degaonkar;Rajesh Chowdhary V*
	185	293	**Group-Scanning by Face Identification and Real time Emotion detection using Faster R-CNN** *K.Jayanthi, Chitradevi D, Saranya N, S. Anbukkarasi*
3.15pm-3.30pm	**TEABREAK**		

		Oral Paper Presentations on **Social Computing/Smart Computing** Session Chairs: **Dr. R. Kathiroli & Dr. S. Neelavathy Pari** Session Coordinator: **Ms. M. Jenila Vincent & Ms. R. Roshina Sarah**		
	PG	**ID**	**TITLE**	
Session 4A **(Physical mode)** **Conference Hall** **CB Block** **18/08/2023** **3.30pm–5.00pm**	191	199	**RESD: Realtime Spam Detection for Social Media Textual Conversation** *Valliyammai Chinnaiah, Gugan B, Manikandan Dhayanithi, Bhavani Venkata Karthik K and Saktheeswaran K*	
	197	62	**An Visual Question Answering System using Cross-Attention Network** *Dhana Lakshmi R and Abirami Murugappan*	
	203	94	**Diffusion MRI preprocessing for Deep Learning Analysis of Brain Structural Connectivity** *Udayakumar P and Subhashini R*	
	208	215	**Performance Evaluation of a Multi-Class Classification Model for Marine Objects** *Geomol George, Anusuya S*	
	216	270	**Exploratory Data Analysis of WhatsApp group chat** *Srishti Gulecha R, Muthu Reshmi K and Dr. Abirami S*	
	222	277	**An Efficient Workflow Scheduling Approach for Enhancing the Performance in Cloud Environment** *George Mirobi, V Suresh and M Kala Devi*	
	227	324	**Convolutional Neural Network and Capsule Network Fusion for Effective Attrition Classification** *R Praveen, P Pabitha, V Sakthi, S Madhavi and R Vijay Sai*	

		Oral Paper Presentations on **Smart Computing** Session Chairs: **Dr. V. Shanmuganeethi (Online) & Dr. B. Lydia Elizabeth** Session Coordinator: **Ms. K. Blessing Christiana**		
	PG	**ID**	**TITLE**	
Session 4B **(Online)** **Meeting Hall** **CB Block** **18/08/2023** **3.30pm–5.00pm**	233	172	**An Effective Approach for Reducing Time and Memory Requirements for Sign Language Detection** *Pravin Sabari Bala S S, Sriram R and Arumuga Arun R*	
	241	173	**Pixels to Phrases: Bridging the Gap with Computationally Effective Deep Learning models in Image Captioning** *Serath Chandra K, RoshiniPoda, Ardra Vinod and Arumuga Arun R*	
	248	306	**End-To-End Autonomous Vehicle Navigation Using Imitation Learning** *Vijayalakshmi M, Suvitha D and Sivaguru P*	
	254	307	**Moving Vehicle Speed and Distance Estimation in Autonomous Vehicles** *Vijayalakshmi M, Suvitha D and Gowtham Krishna*	
	259	308	**CNN based Deep Learning for Pneumonia Detection** *SK Mydhili, Amrin Z, Venkatesh C and Jaya Dharani M*	
	266	313	**GPS-based Arrival Time Prediction for Bus Schedules: Enhancing Commuter Experience** *Shanthi N, Suganthe R C, Manimaran V, ManojKumar P, Kavinbharathi A and Mythili E*	
	272	321	**Enhanced classification of epileptogenic and non-epileptogenic EEG signals using ANN-FDM** *Manjunath V Gudur, Parthasarathy P, Shreeshayana R and Pradeep Kumar M*	
	278	322	**Talking Fingers – A Cost Effective Hand Gesture to Speech Device for Mute** *Viji K, Athar Ahmed, Chitra K, GajjalaKousitha, Nageswara Rao, BathineniKowshik*	
	284	1	**A Comparative Study for breast cancer prediction methods using Deep learning Technique** *Punithavathi K and Yamuna G*	

Time	Saturday, 19th August 2023
09.00am-09.45am	Keynote Address Prof. C. Chandra Sekhar Department of Computer Science and Engineering, IIT Madras, India

	Oral Paper Presentations on **Social Computing/Intelligent Computing** Session Chairs: **Dr. B. Thanasekar & Dr. S. Muthuraj Kumar** Session Coordinator: **Ms. R. Keerthana & Mr. E. Selvam**		
Session 5A **(Physical mode)** **Conference Hall** **CB Block** **19/08/2023** **09.45am-11.15am**	**PG**	**ID**	**TITLE**
	290	201	**SLatAR - A Sign Language Translating Augmented Reality Application** *Neelavathy Pari S, Magarika M, JiavudinSharafath Ahamed M and Latchiyanathan Kalyanasundaram*
	298	66	**Community Detection in Diverse Networks to Locate Influential Spreaders based on K-core and Random Walk Algorithms** *Rajeswari S and Bhavana S U*
	304	95	**Student Stress Buster: Mobile App Testing and Solutions for Anxiety and Depression** *Rakshitha V S, Mahadevi M and Durgadevi S*
	312	105	**A general model for an instructional video-based personalized programming learning environment and its practical implications** *Sanal Kumar T S and R. Thandeeswaran*
	318	114	**An Improved Honey Badger Algorithm to Solve Dynamic Economic Dispatch Problems with Valve-Point Loading Effect** *Arul Rajagopalan, Savitha Arul and Mohamed Abdul Azharuddin A*
	323	174	**Carbon Footprint Monitoring System Using Machine Learning and Deep Learning Techniques** *Priya N, Srinidhi K and Kousalya T*
	331	208	**IoT Based Automated Irrigation System for Agricultural Activities** *Dhinakaran D, M. Keerthana, M. Ananthi, R. Harish, S. M. Udhaya Sankar, M. Sai Sree*

	Oral Paper Presentations on **High Performance Computing/Intelligent Computing** Session Chairs: **Dr. Usha Devi (Online) & Dr. T. Sudhakar** Session Coordinator: **Ms. S. Karthika**		
Session 5B **(Online)** **Meeting Hall** **CB Block** **19/08/2023** **9.45am-11.15am**	**PG**	**ID**	**TITLE**
	337	20	**Horticultural Image Clustering with Multispectral Optimization and Gaussian Lion Vector Quantization** *Divya A and sungeetha D*
	345	71	**Fake News Detection for Portuguese Language** *Lucia Tembe and Anand Kumar M*
	349	144	**A Machine Learning-based Agricultural Yield Forecasting System for Predicting Crop/Plant Yield before Planting the Crops/Plants** *Arumuga Arun R, Saraswathi T, Meeha D and Sugeerthi G*
	355	155	**Design of Voice Automated Floor Cleaning Robot** *Roopa S, Manju H B, Mohammed Shadab, Nikhil J and Nithin N S*
	362	161	**A Miniaturized Wideband Floret - Monopole Antenna for C band Applications** *Ramya Vasudevan, Nagaraju V*
	367	167	**Yolov7-based Brake Light Detection Model for Avoiding Rear-End Collisions** *Manoj Kushwaha and abirami M.S.*
	374	171	**Parameter Investigation Study on Task Scheduling in Cloud Computing** *Santhosh Kumar Medishetti and Ganesh Reddy Karri*
	381	243	**Smart classroom for better pedagogical process and effective energy utilization** *Jayashree P, Hemanth N, Yogeeswar S, Sai Soundharya Lakshmi and Vimal Raaj M*

11.15am-11.30am	TEABREAK

Session 6A **(Physical mode)** **Conference Hall** **CB Block** **19/08/2023** **11.30am–1.00pm**	Oral Paper Presentations on **Intelligent Computing/Cyber Security** Session Chairs: **Dr. Ponsy R. K. Sathia bama & Dr. G. Rajesh** Session Coordinator: **Ms. M. Jenila Vincent & Mr. R. Praveen**		
	PG	**ID**	**TITLE**
	387	32	**SwinCNN: A Hybrid Deep Learning Architecture for Accurate Cotton Disease Prediction** *Muthurajkumar S and Kajeeth Kumar G*
	394	57	**LBA-PAKE: Lattice-Based Anonymous Password Based Authentication Key Exchange Scheme for VANET** *Jagatheswari S and Arman Ahmad*
	402	60	**A Survey on Various Kinds of Image Segmentation of Cancer Images Using Fuzzy Image Processing Methods** *Jagatheswari S and Manivasagan M*
	407	81	**Performance Analysis of Multi-Level Error Corrected Hierarchical Modulation in Multiple Antenna Systems** *Abhishek R, Ananth Ram R, Ann Caroline Jenifer R and Madhumitha Jayaram*
	413	192	**Geometric Structure Based Feature Transformation for Network Anomaly Detection System** *Aneetha, A.S.*
	419	207	**Protected Data Sharing using Attribute Based Encryption for Remote Data Checking in Cloud Environment** *Ram Prasath, Kalpana A V, Nadana Ravisankar, Anand M and Shobana J*
	427	309	***Design and Simulation of Microstrip Patch Antenna for Early Breast Cancer Detection*** *SK Mydhili, Dhevaki V, Jeevika K, Kalaiyarasi N and SethuHarshini V*
Session 6B **(Online)** **Meeting Hall** **CB Block** **19/08/2023** **11.30am–1.00pm**	Oral Paper Presentations on **Cyber Security/Smart Computing** Session Chairs: **Dr. C. Valliammai, Dr. C. Gunavathi (Online) & Dr. Y. Nancy Jane** Session Coordinator: **Ms. V. Stella mary**		
	PG	**ID**	**TITLE**
	434	36	**Network Security Threat Detection: Leveraging Machine Learning Algorithms for Effective Prediction** *Nitesh Kumar T, Thirumala Akash K, Mohammed Usman F and Mohammed Riyaz Ahmed*
	439	138	**Revolutionizing the Dealer Experience with an Intuitive Web Interface for SAP Vehicle Management System (VMS)** *S. Brindha, T. P. Kamatchi, V.S.Jayani and S.Sushmitha*
	447	280	**A Hybrid Eagle's Web Swarm Optimization (EWSO) technique for effective cloud resource management** *Jagadish kumar N, Balasubramanian C, Naresh kumar A, G.Praveenkumar, S.JindhiyaSree*
	453	281	**CubeSat attitude control by implementation of PID controller using python.** *Madhana Mohan Kannan, Anitha U and Anbumani K*
	458	283	**Intelligent Nutrition Assistant Application** *S RahmathNisha, Aarthi M, V Shyamala, M Pavithra, K Vallipriyadharshini, B Samgiftson Raj*
	464	320	**A Deep Learning Based Cross Model Text to Image Generation using DC-GAN** *Gayathiri Kasi, Abirami S and Dhana Lakshmi R*
	470	33	**ERC721M: A Web3 Token Standard for REIT Companies** *Suganthi K, Krishnansh Singh, Sajal Tayal and Mandeep Singh*
1.00 pm – 2.00 pm	**LUNCH BREAK**		

	Oral Paper Presentations on **High Performance Computing/Smart Computing** Session Chairs: **Dr. V. P. Jayachitra & Dr. K. Kottilingam** Session Coordinator: **Ms. R. Keerthana & Mr. G. Kajeeth Kumar**		
	PG	**ID**	**TITLE**
Session 7A **(Physical mode)** **Conference Hall** **CB Block** **19/08/2023** **2.00pm–3.30pm**	478	286	**Intelligent Shiny Dashboard for District-wise Crop Suggestion in Tamil Nadu** *Dr. Nancy Jane Y., Praveen P, Kavya Swetha J and Shanthosh Kumar E*
	482	45	**Cover selection for image steganography determined by distinct characteristics.** *Rupa Jamatia and Prof. B. Bhuyan*
	490	58	**Image Enhancement of Cardiac MR motion Image for High-Quality Segmentation using combined Fuzzy Pooling Layer in Convolutional Neural Networks** *Jagatheswari S and Tharun Balasubramaniam*
	495	59	**A Review of Image Processing Methods and Segmentations for Brain Tumour Analysis** *Jagatheswari S and Nirmaladevi S*
	501	85	**Deep Fake Face Detection using Convolutional Neural Networks** *Prakash P, SasithradeviAnablagan, Kasthuri P, AlbenRichards M J, and Diviya N*
	505	190	**Uniform And Randomly Distributed Fuzzy Logic Based Clustering in Wireless Sensor Networks** *Sree Nidhi S, Kishore Kumar, and Sridharan D*
	511	21	**A Comparative Study of Deep Learning Models for ECG Signal-based User Classification** *Pabitha P, Praveen Ramalingam, Chandana Kamma Cheruvu Jayaraja, Ponlibarnaa S and AparnaaA S*
	Oral Paper Presentations on **Cyber Security/Network Science/Smart Computing** Session Chairs: **Dr. B. Surendiran (Online) & Dr. Chandra Mouli (Online)** Session Coordinator: **Mr. G. Kajeeth Kumar**		
	PG	**ID**	**TITLE**
Session 7B **(Online)** **Meeting Hall** **CB Block** **19/08/2023** **2.00pm–3.30pm**	519	61	**A Survey: An Effective Utilization of Machine Learning Algorithms in IoT Based Intrusion Detection System** *Maheswaran N, Bose S, Buvaneswari N, Logeswari Govindaraj and Anitha Thangasamy*
	526	72	**Multi-Camera Multi-Person Tracking in Surveillance System** *HEDDE, Omprasad V; M, Anand Kumar*
	533	92	**A New High-Performance Feature Selection Method for Machine Learning-Based IoT Intrusion Detection** *Maheswaran N, Bose S, Buvaneswari Natarajan, Logeswari Govindaraj and Anitha Thangasamy*
	541	106	**Identifying illicit transactions in Bitcoin Tumbler services using Supervised Machine Learning Algorithms** *Ezhilmathi S and Selvakumara Samy*
	549	134	**An Information-Theoretically Secure Method to Encrypt One-Time Pads Utilizing Cellular Automata** *Kumaresan G*
	557	160	**A Case Study Using Top Companies to Examine the Nmap Tool's Applicability for Network Security Assessment** *Asokan J, KaleelRahuman A, Suganthi B, Fairooz Shaik, Dr.Sundar Prakash Balaji Muthuswamy and VellaiappanElamaran*
	563	269	**Transformer based Twitter Trending Topics Sentiment Drift Analysis in Real Time** *Susi E and Shanthi A P*
	570	285	**Crime Detection Using Multi-Layer Perceptron in Social Media Platforms** *Sathya J and Mary Harin Fernandez F*
19/08/2023 **Conference Hall** **CB Block** **3.40 pm – 4.30 pm**	**Keynote Address** **Shri. Ramesh Radhakrishnan, Scientist G, DDG, National Informatics Centre, Govt of India**		
19/08/2023 **Conference Hall** **CB Block** **4:30pm – 5:00pm**	**Valedictory and closing ceremony.**		