



VIGNAN'S

Foundation for Science, Technology & Research

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Department of Computer Science & Engineering

First International Conference on Machine Intelligence & Soft Computing

3-4 September 2020

Department of CSE, VFSTR Deemed to be University and VIIT, Vizag jointly organizing the First International Conference on Machine Intelligence & Soft Computing on 3-4 September 2020 with the technically co-sponsorship of Springer. Due to this Corona pandemic situation, ICMISC 2020 is completely organized as an Online Conference. The proceedings of the Conference will be published in Springer Series "Advances in Intelligent Systems and Computing" indexed by Scopus & DBLP.

ICMISC-2020 provides a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered, and solutions adopted in the fields of Machine Intelligence and Soft Computing.

Call for Papers

- ✓ Artificial Neural Networks and Fuzzy Logic
- ✓ Cloud Computing
- ✓ Evolutionary Algorithms and Computation
- ✓ Hybrid Models and Fuzzy Systems
- ✓ Machine Learning
- ✓ Meta Heuristics and Swarm Intelligence
- ✓ Multi-Model Problems and Spatial Distribution
- ✓ Neuro Fuzzy System
- ✓ Non-Linear Separation
- ✓ Optimization Methods and Solutions
- ✓ Self-Organizing Maps
- ✓ Soft Computing and Decision Support Systems
- ✓ Soft Computing Applications in Actuarial Science
- ✓ Soft Computing for Database Deadlock Resolution
- ✓ Soft Computing Methods in Engineering
- ✓ Support Vector Machine
- ✓ Swarm Intelligence

Schedule At A Glance				
Conference Dates: September 03 - 04, 2020				
1st INTERNATIONAL CONFERENCE ON MACHINE INTELLIGENCE AND SOFT COMPUTING: Program Schedule				
08:45 A.M	Logged	Venue: Virtual		
Time	Day - 1: Thursday, 3rd September 2020			
9:00-9:45	INAUGURAL			
9:45-10:00	Tea Break			
10:00-11:00	Keynote: Dr. Saptarshi Das, The Pennsylvania State University, USA			
11.00-12.00	Invited Talk: Dr. C Chandra Sekhar Professor &Head, Department of CSE, IIT Madras			
12:00-13:00	Track 1: Medical	Track 2: Networks	Track 3: Machine Learning	
	Paper ID: 2,29, 45	Paper ID: 34, 51, 65, 66,72	Paper ID: 12, 13, 24	
13:00-14:00	Lunch Break			
14:00-15:00	Keynote: Dr. Lalit Garg University of Malta, Malta			
15:00-16:30	Track 1: Medical	Track 2: Networks	Track 3: Machine Learning	Track 4: Security
	Paper ID: 95, 96, 61	Paper ID: 73,83, 107,109,113,125	Paper ID: 30, 41, 43, 53, 57	Paper ID: 8,77,126, 127,139
Time	Day 2: Friday, 4th September 2020			
10:00-10:45	Invited -2: Dr. Ozen OZER Kırklareli University, Turkey			
10:45-11:45	Invited Talk: Dr. C R Rao Professor, Department of CSE, University of Hyderabad			
11:45-12:00	Tea Break			
12:00-13:00	Track 1: Medical	Track 2: Networks	Track 3: Machine Learning	
	Paper ID: 122,142	Paper ID: 128,132,134,151,158	Paper ID: 75, 81,155,162	
13:00-14:00	Lunch Break			
14:00-14:30	Valedictory			

On the first day of the Conference, Dr. Saptarshi Das, Pennsylvania State University, USA has given a key note speech on applications and algorithms of Solid State Computing and Biomimetic Computing. Later, Dr. C Chandra Sekhar, Professor & Head, IIT Madras has discussed an invited talk on Challenges and Opportunities with Deep Learning. In the post lunch session, Dr. Lalit Garg, University of Malta,

Malta has discussed about usage of analytics in Medical fields include Medical Disease Support System for Acute Upper Gastrointestinal bleeding, GIV Disease Progressive Modeling etc.

On the second day of the Conference i.e., 04/09/2020 Dr. Ozen OZER, Kirklareli University, Turkey has discussed the applications areas of Machine Learning and Dr. C R Rao, Professor, University of Hyderabad delivered the impact of Computer Vision and Soft Computing in our day to day life. Also presented a key insights of machine learning applications.

More than 200 research papers were received to publish in ICMISC 2020. After thorough peer review, 43 research articles got accepted and those papers will be presented by the Conference delegates during these two days in online.

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Wang Jin	Professor, Changsha University of Science and Technology, China
Goreti Marreiros	IPP/ISEP, Portugal
Mohamed Hamdi	Professor, Supcom, Tunisia

The following list of Papers Accepted and Presented during the Conference

ID	Title	Authors
002	A Comparative Study on Automated Discovery of Malaria by Using Blood Smear Images	Thirupathi Rao N, Dr. Debnath Bhattacharyya, Dasari Sushma
008	A SURVEY ON TECHNIQUES FOR ANDROID MALWARE DETECTION	Karampuri Navya, Karanam Madhavi, Krishna Chythanya Nagaraju,
012	Comparative Analysis of Prevalent Disease by Pre-processing Techniques using Big Data and Machine Learning: An Extensive Review	Vamsi Bandi
013	Prediction of diabetes using Ensemble learning Model	Sapna Singh, Sonali Gupta
024	Improve K-mean clustering algorithm in large scale data for accuracy improvement	Maulik Dhamecha
029	A Novel Approach to Predict Cardiovascular Disease Using Machine Learning	Bhanu Prakash Doppala, Midhun Chakkavarthy, Debnath Bhattacharyya
030	Comparative Analysis of Machine Learning Models on Loan Risk Analysis	Marada Srinivasa Rao, SEKHAR CHIPURUPALLI, Debnath Bhattacharyya
034	Compact MIMO antenna designed for upcoming 5G applications	Dr K SRINIVASA NAIK, Sourav Roy, Aruna Singam
041	ACCURATE PREDICTION OF FAKE JOB OFFERS USING MACHINE LEARNING	Keerthana B, Anumala Reethika Reddy, Avantika Tiwari
043	Emotion Recognition through Human Conversation using Machine Learning Techniques	SEKHAR CHIPURUPALLI, Marada Srinivasa Rao, A S Keerthi Nayani, Debnath Bhattacharrya
045	Intelligent Assistive Algorithm for Detection of Osteoarthritis in Wrist X-Ray Images based on JSW Measurement	ANIL BHARODIYA, ATUL GONSAI
051	BLOCKCHAIN EMBEDDED CONGESTION CONTROL MODEL FOR IMPROVING	Lakshman Narayana Vejendla

	PACKET DELIVERY RATE IN AD HOC NETWORKS	
053	Predicting Student admissions rate into University using Machine Learning models	Dr. Raghavendran Ch V, Pavan Venkata Vamsi Ch, Veerraju T, Ravi Kishore Veluri
057	ACP: A Deep Learning Approach for Aspect Category Sentiment Polarity Detection	Ashish Kumar, Vasundhra Dahiya, Aditi Sharan
061	Performance Analysis of Different Classification Techniques to Design the Predictive Model for Risk Prediction and Diagnose Diabetes Mellitus at an Early Stage	Asmita Ray
065	Development of an Automated CGPBI Model suitable for HEIs in India	Hari Govinda Rao chukka, BHANU PRAKASH DOPPALA, Swathi Kalam, Thirupathi Rao N
066	RANGE Doppler ISAR Imaging using SFCW	Naga Jyothi A, Sai Seetha G V, Anjali Reddy P
072	Secure Communication in Internet of Things based on Packet Analysis	Lakshman Narayana Vejjendla, Arepalli Peda Gopi
073	Performance Investigation of Cloud Computing Applications Using Steady State Queuing Models	Pilla Srinivas, Thirupathi Rao N, Dr. Debnath Bhattacharyya
075	A Random Forest based Leaf Classification using Multiple Features	Dipankar Hazra, Debnath Bhattacharyya, Tai-hoon Kim
077	A Two-Level Hybrid Intrusion Detection Learning Method	GAYATRI KETEPALLI, Premamayudu B
081	SUPERVISED LEARNING BREAST CANCER DATA SET ANALYSIS IN MATLAB USING NOVEL SVM CLASSIFIER	Prasanna Priya Golagani, Sita Mahalakshmi Tummala, Khasim Beebi Shaik
083	Retrieving TOR Browser digital artifacts for forensic evidence	Valli Kumari Vatsavayi
095	Post COVID -19 Emerging challenges and predictions on people, process, and product by Meta Heuristic Deep Learning Algorithm	vithya Ganesan, Kolla Bhanu Prakash, Naren J, Govindaraj V
096	An Analytics Overview & LSTM based Predictive Modeling of Covid-19:A Hardheaded Look Across India	Ahan Chatterjee, Swagatam Roy
107	Studies on Optimal Traffic Flow in Two Node Tandem Communication Networks	Thirupathi Rao N
109	Design and Implementation of a Modified H-Bridge Multilevel Inverter with Reduced Component Count	Madisa V G Varaprasad, B Arundhati, Phani Teja B, Hema Chander A
113	Private Cloud for Data Storing and Maintain Integrity Using Raspberry Pi	Venkata Naresh Mandhala
122	Prediction of Swine Flu (H1n1) Patient's Condition Based on the Symptoms and Chest Radiographic Outcomes	Pilla Srinivas, Debnath Bhattacharyya, Divya Midhun Chakkaravarthy

125	LOW ENERGY UTILIZATION WITH DYNAMIC CLUSTER HEAD (LEU-DCH)-FOR REDUCING THE ENERGY CONSUMPTION IN WIRELESS SENSOR NETWORKS	Nagamallik raj Sappa
126	Efficient Cryptographic Technique to Secure Data in Cloud Environment	Venkata Naresh Mandhala
127	SECURE INFORMATION TRANSMISSION IN BUNCH BASED WSN	Nagamallik raj Sappa
128	Student Performance Monitoring System using Decision Tree Classifier	V RAMAKRISHNA SAJJA, Hemantha Kumar Kalluri, P Jhansi Lakshmi, DS BHUPAL NAIK
132	Smart Farming using IoT	DS BHUPAL NAIK, V Ramakrishna Sajja, P Jhansi Lakshmi
134	Novel Topology for 9-level H-Bridge Multilevel Inverter with Optimum Switches	B Arundhati, Madisa V G Varaprasad, Vijayakumar Gali
139	ASSESSMENT OF THE SECURITY THREATS OF AN INSTITUTIONS' VIRTUAL ONLINE RESOURCES	Roslin John Robles, Daisy Endencio-Robles, Maricel Balitanas-Salazar
142	Risk Prediction based Breast Cancer Diagnosis using Personal Health Records and Machine Learning Models	Sireesha Moturi, Naga Thirumala Rao Sighakolli, Srikanth Vemuru
151	Orthogonal MIMO 5G Antenna for WLAN Applications	Suneetha Pasumarthi, Dr K SRINIVASA NAIK, Pachiyannan Muthusamy, Aruna Singam
155	Usage of KNN, Decision Tree and Random Forest algorithms in Machine Learning and performance analysis with a comparative measure	UmaPavan Kumar K, Gandhi O, Venkata Reddy M, Lakshma Reddy M
156	PATIENT DRIVEN ELECTRONIC HEALTH RECORD USING BLOCKCHAIN	Tharunya R, Naren J, vithya Ganesan
158	Bank Marketing using Intelligent Targeting	Shaik Subhani, Vijaya Kumar Reddy Radha, Subba Rao P, Srinivasa Rao B
162	Machine learning application in the hybrid optical Wireless networks	DEEPA NAIK, Tanmay De

Dr. Debnath Bhattacharyya, Professor, VIIT is the General Chair of the Conference, Dr. N Tirupathi Rao, Professor, VIIT and Dr. S V Phani Kumar, Associate Professor, VFSTR are serving as Conveners of this Conference.



For the inaugural dignitaries from Vignan's Institute of Information Technology and Dr. Venkatesulu D, Professor & Head, CSE, Cmde. Dr. M.S. Raghunathan, Registrar, Dr. M Y S Prasad, Vice Chancellor and Dr. L Rathaiah, Chairman Vignan Institutions have joined the inaugural of ICMISC 2020 and shared their wishes to the delegates and Participants of the Conference.

First day of the Conference was completed with utmost satisfaction of delegates and Participants and they have actively participated in the keynote and Invited sessions.

Conference Coordinator

HOD, CSE

S. Prasad

D. Venkatesulu