

2020 IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (2020 IEEE DISCOVER)
October 30 – 31, 2020
Shri Madhwa Vadiraja Institute of Technology and Management, Bantakal, Udupi, India
Organized by IEEE Mangalore Sub-Section

29-10-2020	3:15 - 4:15 PM	Inauguration by Shri Shri Vishwvallabha Theertha Shripadaru		
1st Day: October 30, 2020 Friday				
30-10-2020	9:15 - 10:15 AM	Dr. Supawadee Aramvith	Deep Learning-Based Video Analytics for Surveillance IoT Applications	
	10:15 - 11:15 AM	Dr. Lakshminarayana Sadasivuni	Role of Technology in minimizing the inequality in Human Development	
	11:15 - 11:30 AM	Break		
	11:30 AM - 12:30 PM	Dr. Rajkumar Buyya	Neoteric Frontiers in Cloud and Edge Computing	
	13:30 - 2:00 PM	Break		
	Paper Presentation Sessions - Distributed Computing Track			
	2:00 - 2:20 PM	12	Rajashree Krishna and Prema K V	Soybean Crop disease classification using machine learning techniques
	2:20 - 2:40PM	13	Swapna Saturi	Development of Prediction and Forecasting Model for Dengue Disease using Machine Learning Algorithms
	2:40 - 3:00 PM	27	Seema Kanagond, Supriya Huddar, Sushma Hoolageri, Vinutha Kupatkar, Rajeshwari Itagi and Soumya Jolad	Smart Assistive Device for Senior Citizens
	3:00 - 3:20 PM	52	Tejas Khare and Anuradha Phadke	Automated Crop Field Surveillance using Computer Vision
	Paper Presentation Sessions - Communications Track			
	3:40 - 4:00 PM	21	Melchizedek Das, Sai Santosh Ambati and K Chandrasekaran	A Heuristic Algorithm to Find a Path to be Blocked by Minimizing Traffic Disruption
	4:00 - 4:20 PM	14	Vidya Rao and Prema K V	Lightweight Authentication and Data Encryption Scheme for IoT Applications
	4:20 - 4:40 PM	34	Soumya J Bhat and Santhosh K V	Priority Based Localization for Anisotropic Wireless Sensor Networks
	4:40 - 5:00 PM	48	Pradeep A S, G A Bidkar, Thippesha D, Nagaraj, Spurthi M P M and Vishal	Design of Compact Beam-Steering Antenna with a Novel Metasubstrate Structure
	Paper Presentation Sessions - Robotics Track			
	2:00 - 2:20 PM	17	Sofia D'Souza, Prema K V and Balaji S	Feature Selection and Modeling using Statistical and Machine learning Methods
	2:20 - 2:40PM	35	Anusheel Goswami, Tinkumoni Kalita, Rajneesh Kashyap, Tabassum Rasul and Koena Mukherjee	Homing of a Robot
	2:40 - 3:00 PM	60	Maninder Singh, Gurbinder Singh, Bob Gill, Ishu Bansal and Himanshu Kapoor	Enabling Online Education in Government Schools in India
	3:00 - 3:20 PM	132	Mahesh S Gour, Druva Kumar S, Pradeep Kumara V. H, Manjunatha S, Sunil Kumar K H and Chetan H	Arduino based smart and intelligent helmet system for two wheelers
	Paper Presentation Sessions - Healthcare Track			
	3:40 - 4:00 PM	153	Tejaswini H, Manohara Pai, Radhika Pai, Girija Attigeri and Revathi P. Shenoy	An ontology based decision support system for nutrition deficiency
	4:00 - 4:20 PM	41	Trivikrama Bhat, Akanksha, Shrikara, Shreya Bhat and Manoj T	A Real-Time IoT Based Arrhythmia Classifier Using Convolutional Neural Networks
	4:20 - 4:40 PM	39	Shreya Prabhu and Roshan J Martis	Computer Aided Tool for diagnosing Epilepsy using Kolmogorov Complexity and Approximate Entropy
	4:40 - 5:00 PM	66	Shyam Vattamthanam, Mrudula G B and C. Santhosh Kumar	Sleep Apnea Classification Using Deep Neural Networks
	5:00 - 5:20 PM	67	Aishwarya Balakrishnan, Jeevan Medikonda and Pramod Nambhoorthi	Analysis of the effect of muscle fatigue on gait characteristics using data acquired by wearable sensors
	Paper Presentation Sessions - Electronics and Electrical Circuits Track			
	2:00 - 2:20 PM	62	Anirudh Sivakumar and Pratik Mohanty	Electronic System Design of a Formula Student Electric Car
	2:20 - 2:40PM	29	Mary Ann George, I V L Durga Bhavani and Dattaguru V. Kamath	EX-CCII based FOPID controller for electric vehicle speed control
	2:40 - 3:00 PM	38	Praveena Krishna P. S., Jayalakshmi N. S. and Sudarshan A.	Sliding Mode Control of Coupled Inductor Based Bidirectional Converter Topology for Electric Vehicle Application
Paper Presentation Sessions - VLSI Design Track				
3:20 - 3:40 PM	42	Sri Harsha Bandarupalli, Bala Pavan Kalyan Bandi, Rahul Kumar Reddy Boggula and Kirti Pande	Compressor Using Full Swing XOR Logic Gate	
3:40 - 4:00 PM	51	Konda Nandan Kumar, Nagireddy Venkata Sai Anvesh Reddy, Peela Shanmukh and M.Vinodhini	Matrix based Error Detection and Correction using Minimal Parity Bits for Memories	
4:00 - 4:20 PM	86	Akash Kumar R, Ashish Ashok Shetty, Mohammed Saud, Preemal Sharanya Serrao and Rohan Pinto	Design and Implementation of 64-bit Parallel Prefix Adder	
4:20 - 4:40 PM	24	P Swetha, P Sai Meghana, Jonnala Charisma and Kirti Pande	Speed Improvement in SRAM Cell Using Transmission Gates	
4:40 - 5:00 PM	109	Swathi U and Smitha U	Design and Implementation of Efficient RGB to Gray scale Converter Architectures Using Reversible Logic	
5:00 - 5:20 PM	128	Melannie Fernandes, Alrida Monteiro, Anjetha Joseph Mathew, Glany Vinita Colaco and Keith Raymond Fernandes	The Mechanism to Combat Data Leakage Trojans in Circuits using Randomized Encoding	
5:20 - 6:25 PM	Live Streaming of Yakshagana (Recorded Performance of SMVITM Staff members and Students)			
6:30 - 7:30 PM	Dr. P R Mukund			
2nd day: October 31, 2020 Saturday				
Paper Presentation Sessions - Communications Track				
9:30 - 9: 50 AM	18	Ipsita Upasana, Nanditha Nandanavanam, Ankitha Nandanavanam and Nadiya Naaz	Performance Characteristics of NTRU and ECC Cryptosystem in context of IoT Environment	
9:50 - 10:10 AM	108	Y V Sneha, Vimitha, Bolor Shraavan, Vishwasini and N.D Adesh	Prediction of Network Congestion at Router using Machine Learning Technique	
10:10 - 10:30 AM	114	Aslam Nandyal and Dr. Mohammed Rafi	Determining Feature Gaps Of Open Source Cloud Platforms for Mobile Backend as service (MBaaS) in Enterprise Mobile Applications	
Paper Presentation Sessions - Distributed Computing Track				
10:50 - 11:10 AM	65	Meeradevi K	Analysis of Agricultural Supply Chain Management for Traceability of Food Products using Blockchain-Ethereum Technology	
11:10 - 11:30 AM	78	Ranjana Venkatesh, Rithika Bellad, Meeradevi K, Soumya Sawkar and Poornima Keerthi	Design and Development of Efficient Techniques for Leaf Disease Detection using Deep Convolutional Neural Networks	
11:30 - 11:50 AM	116	Sreesh Sangra and Smitha N Pai	Price look out using web browser for the objects detected in the image	
11:50 - 12:10 PM	121	Suhani Jattan, Vineeth Kumar, Akhilesh R, Rachith R Naik and Sneha N S	Smart Complaint Redressal System Using Ethereum Blockchain	
12:10 - 12:30 PM	180	Swathi Shetty, Aishwarya Shetty, Aishwarya Hegde A, Anusha B Saliyan, Akshaya, Pruthviraj Umesh and K. V. Gangadharan	Experiential Learning of Physio-Chemical and Bacteriological Properties of Water using Virtual Labs	
Paper Presentation Sessions - Healthcare Track				

31-10-2020

9:30 - 9:50 AM	143	Shrikanth Rao S.K and Roshan Joy Martis	Machine Learning Based Decision Support System for Atrial Fibrillation Detection using Electrocardiogram
9:50 - 10:10 AM	76	Rakshith Kamath and Anu Shaju Areeckal	Semi-automated estimation of spinal curvature from scoliosis radiographs using difference matrix
10:10 - 10:30 AM	101	Neha Sara John , Natarajan Sriraam, Roshan Joy Martis, B. S. Supriya, M. S. Varsha and A. N. Jeevitha	Computational Method for Preterm Labor Prediction using Electrohysterogram
10:30 - 10:50 AM	40	Rudresh Shirwaikar , Dinesh Acharya U, Tanvi Parate and Leslie Edward Simon Lewis	Risk Stratification of Neonates using Machine Learning Techniques
Paper Presentation Sessions - Robotics Track			
11:10 - 11:30 AM	135	Girisha S , Manohara Pai, Ujjwal Verma and Radhika Pai	Semantic Segmentation of UAV Videos based on Temporal Smoothness in Conditional Random Fields
11:30 - 11:50 AM	136	Ashutosh Holla , Manohara Pai, Ujjwal Verma and Radhika Pai	Efficient Vehicle Counting by Eliminating Identical Vehicles in UAV aerial videos
11:50 - 12:10PM	137	Shreesha Surathkal , Manohara Pai, Radhika Pai and Ujjwal Verma	COMPUTER VISION BASED FISH TRACKING AND BEHAVIOUR DETECTION SYSTEM
12:10- 12:30 PM	64	Anil B V and Ravikumar M S	Voice Based Person Identification Using c-Mean and c-Medoid Clustering Techniques
Paper Presentation Sessions - Healthcare Track			
9:30 - 9:50 AM	68	Rahul Nanya , Manjunath K N, Rajendra Kurady and Manuel K	Transmission of radiology images over an Unsecure Network Using Hybrid Encryption Schemes
9:50 - 10:10 AM	118	Rathi Adarshi Rammohan , Jeevan Medikonda and Dan Issac Pothiyil	Speech Signal-Based Modelling of Basic Emotions to Analyse Compound Emotion: Anxiety
10:10 - 10:30 AM	104	Basavaraj Hiremath , Natarajan Sriraam, B R Purnima and V Suresh Babu	Single Channel based Demarcation of Yogic and Non-Yogic Sleep Patterns using Observational Sleep EEG
Paper Presentation Sessions - Electrical and Electronics Circuits Track			
10:50 - 11:10 AM	142	Bhagyashree Karur and Sanjeevkumar R A	Multi level Transformerless PV inverter Based Real and Reactive Power Injection for Single Phase System
11:10 - 11:30 AM	44	Jayalaxmi Rajesh Hanni and Santhosh K V	Time Response Analysis of Novel Helical Capacitance Level Sensor
11:30 - 11:50 PM	117	Dr. Premananda B.S., Nikhil K.J. and Nirmal Jain C.M.	MEC S-box based PRESENT Lightweight Cipher for Enhanced Security and Throughput
11:50 - 12:10 PM	90	Nagaraja Rao Sulake, Veerabhadra and Praveen Kumar Varanasi	Performance Analysis of Z – Source Inverter Topologies for Renewable Energy Sources and Fuel Cell Applications
12:10 - 12:30 PM	91	Nitin Kumar , Sushma J Patil and M S Aspalli	A Switched Capacitor Multilevel Inverter with Voltage Boosting Ability
12:30 - 2:00 PM	Break		
2:00 -3:00 PM	Valedictory Program		