



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution, Affiliated to Anna University, Approved by AICTE,
Accredited by NAAC with 'A+' Grade,
Department of ECE, EIE & EEE - Accredited by NBA New Delhi, and Accredited by IET(UK),
Sathyamangalam- 638 401, Tamilnadu, India



First International Conference on Smart Technologies, Communication, and Robotics 2021 (IEEE-STCR 2021), 09 – 10 October 2021



IEEE-STCR 2021 PAPER PRESENTATION SCHEDULE – DAY 1

Day 1		Date & Time : 09.10.2021 & 12.30 to 6.00 PM		Track 1
Coordinators: Mr. R. Krishnaraj, Ms. P. Mercy, Ms. K. T. Dhivya Session Chair(s): Dr. K. S. Vairavel, Dr. CI. Chinnadurai, Dr. L. Rajasekar, Dr. B.Goldvin Sugirtha Das, Dr. Sanjoy Deb, Dr. R. Saravanakumar NOTE: Presentation Link : meet.google.com/btq-ehud-kpr				
S.No	Paper ID	Authors	Title of the Paper	Date & Time
1	2	Gowtham Viswanath R, S. K Singh, Deepam Dubey	Design of Programmable Gain Instrumentation Amplifier using Demultiplexer Circuit	09.10.2021 & 12.30- 12.45 pm
2	39	Mumtaj S, Ravichandran C S	Performance Improvement of BLDC Motor using ASMO Algorithm based PID controller	09.10.2021 & 12.45- 1.00 pm
3	47	Sakthi Suriya Raj J S, Sivaraman P	Design and control of Grid connected PV system for EV charging station using Multiport Converter	09.10.2021 & 1.00-1.15 pm
4	50	Srimathi R, Atif Iqbal, Maheswari K T, Maheswari R, Kamatchi Kannan V	An Efficient Boost Converter for Energy Storage Systems in a DC Distribution System	09.10.2021 & 1.15- 1.30 pm
5	103	S.Arun jayakar, T.Rajesh, S.Sakthiya Ram, C.Ganesh Babu	An Investigation of Hybrid Optimization Techniques for Air Flow Temperature Process	09.10.2021 & 1.30- 1.45 pm
6	104	Dhivya K.T, ShyamalaPrasanna A, Velnath.R, Ambika K, Harrini V, Sriram	Implementation of Multi-Input ZCS Based Multilevel Inverter for Renewable Energy Sources	09.10.2021 & 1.45- 2.00 pm
7	120	Dhanasekar R, Vijayachitra S, Sabastian A, Rasswanth S, Sabareeswar E	Optimized Control of Coolant Temperature in Continuous Stirred Tank Reactor	09.10.2021 & 3.00-3.15 pm



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8	130	Harsh Nandwana, Varnit Kashyap, Arpit Chechani, Praveen Saraswat, Ankit Vijayvargiya	Design Analysis of Payload Carrying Quadcopter using Finite Element Analysis	09.10.2021 & 3.15-3.30 pm
9	153	S.Panneerselvam, K.Muthukumar, H.S.Kishoor, M.Monish, S.Adhithyan	Performance Comparison of Domestic Refrigeration System with Latent Heat Storage Materials	09.10.2021 & 3.30-3.45 pm
10	163	Virti Shah, Shrey Modi	Comparative Analysis of Psychometric Prediction System	09.10.2021 & 3.45-4.00 pm
11	168	C.Ganesh Babu, S.Arun jayakar, T.Rajesh, G.Saran, C.Thayanithi, A N Kishore Kumar	An Investigation of HMI Based PLC - PID for Automatic Quality Water Distribution System	09.10.2021 & 4.00-4.15 pm
12	195	Sudhahar S, Ganesh Babu C, Sharmila D	Optimal Tuning of PI Controller for Time Delay System	09.10.2021 & 4.15-4.30 pm
13	53	Krishnaraj R, Senthil T, Vikram N, Soundarya B, Sharmila A	Design of a Sleep Transistor and Read, Write Separation Based 6T SRAM Memory Array for Low Power IOT Applications	09.10.2021 & 4.30-4.45 pm
14	131	Daniel Raj A, Saravana Kumar R, Sanjoy Deb, Vignesh Roshan M, Sugirdan V, Soundar S	Design and Analysis of High-Performance Carry Skip Adder using Various Full Adders	09.10.2021 & 4.45-5.00 pm
15	146	Srithar S, Arokia Jesu Prabhu L, Vetrmani Elangovan, Naveen Kumar M, Alagumuthukrishnan S	Mutism Guide: A Real-Time Sign Spelling Recognition using Skeleton based Improved HAAR Support Vector	09.10.2021 & 5.00-5.15 pm
16	151	Rasheedha A, Suresh Kumar R, Poongkuzhali AS, Munniyammal P	Bitonic Sorting on FPGA for Energy and Memory Efficient Mapping	09.10.2021 & 5.15-5.30 pm
17	190	Dhivakar K M , AnshuSarje	A Versatile, Low-cost UV exposure system for Photolithography	09.10.2021 & 5.30-5.45 pm
18	194	Elango Sekar, Sampath Palaniswami, Sajan P Philip, Raja Sekar S, Gavaskar K, Danielraj A	Design of Reconfigurable Signed Dual Modulo Multiplier Function (DMMF) for RNS	09.10.2021 & 5.45-6.00 pm



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IEEE-STCR 2021 PAPER PRESENTATION SCHEDULE – DAY 1

Day 1		Date & Time : 09.10.2021 & 12.30 to 6.00 PM		Track 2
Coordinators: Ms. A. Sharmila, Ms. K. M. Nandhini, Mrs. K. Renuka Session Chair(s): Dr. K. Rajalakshmi, Dr. J. Senthilkumar, Dr. V. kamatchi Kannan, Dr. S. Arun Jayakar, Dr. D. Deepa, Dr. K. Shoukath Ali NOTE: Presentation Link: meet.google.com/psk-vkmu-icu				
S.No	Paper ID	Authors	Title of the Paper	Date & Time
1	9	Muthulakshmi S, Chitra R	Enhanced Data Privacy Algorithm to Protect The Data in Smart Grid	09.10.2021 & 12.30- 12.45 pm
2	10	K Chitra, Kashif Ahmed, Anju Das, Shailendra B	A Hybrid Wind-Solar Standalone Renewable Energy System	09.10.2021 & 12.45- 1.00 pm
3	36	V. Nallarasan, Kottilingam Kottursamy	Energy Efficiency and Throughput Analysis of Cognitive based Internet of Things	09.10.2021 & 1.00-1.15 pm
4	42	Mohammed Abdul Moid, Abdullah Siraj, Mohd Farhaan Ali, Ahmed Osman Amoodi	Predicting Stars on Open-Source GitHub Projects	09.10.2021 & 1.15- 1.30 pm
5	76	Girinath N, Ganesh Babu C, Maruthi Shankar B , Harshita Sri M, Jothiga V, Janani B, Mirthula Megha N R, Madhumitha R	Intelligent Irrigation System for Temperature and Moisture Monitoring	09.10.2021 & 1.30- 1.45 pm
6	96	Ram Nivas D, Satheesh Kumar S, Ganeshkumar D	Design and Implementation of Hands-Free Electronic Sanitizer Dispenser	09.10.2021 & 1.45- 2.00 pm
7	98	S.Saveetha, K.A.Vijayalakshmi, K.T.Maheswari	Surface Modification of CUO Nanoparticles Treated by Low Temperature Plasma	09.10.2021 & 3.00-3.15 pm



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8	108	Sudhir Kumar Rajput, Abhishek Kaushal, Rabesh Kumar Singh, Anuj Kumar Sharma	A Study and Fabrication of SMA Based 3D Printed Adaptive Gripper	09.10.2021 & 3.15-3.30 pm
9	110	Muhammad Ali Qureshi, Tanveesh Singh Chaudhery, Rishabh Patil, Stevina Correia	Honest Grade- An Online Education Platform	09.10.2021 & 3.30-3.45 pm
10	114	Kannaki S, Adithyan M, Ajai R, Ajith Kumaran V, Aswinkumar K, Saktheeswaran G	Design and Fabrication of Automated Cloth Pulling Machine for Shed Work	09.10.2021 & 3.45-4.00 pm
11	137	Kashvi Dedhia, Saloni Dagli, Mallika Konkar, Neha Katre	A Proposed Approach to Indoor Navigation and Store Recommendation	09.10.2021 & 4.00-4.15 pm
12	185	D Sivaraj, S Hemanth Kumar, D Venkata sai Jogarao, Shivam Dutta, K Ezhumalai, Eshay Rabjor	Analysis of Driving Behaviour for Improved Safety in Commercial Fleet Management using On-board Diagnostics (OBD-II)	09.10.2021 & 4.15-4.30 pm
13	26	Aman Kumar Mishra, Vijayakumar Ponnusamy	Millimeter Wave and Radio Stripe: A Prospective Wireless Technology for 6G and Beyond Networks	09.10.2021 & 4.30-4.45 pm
14	107	M.Mano Raja Paul, M. Leeban Moses, T. Perarasi, R. Kannan	Ultra-Wideband Flexible and Wearable Textile Antenna for Predicting Breast Cancer	09.10.2021 & 4.45-5.00 pm
15	158	T. Perarasi, K.Shoukath Ali, M. Leeban Moses, C.Poongodi, D.Deepa, R.Gayathri	Design of Meander Dipole Antenna Structure for 5G Wireless Applications	09.10.2021 & 5.00-5.15 pm
16	162	Ajin R Nair, Kirthiga S	Impact of Total Harmonic Distortion in SWIPT Enabled Wireless Communication Networks	09.10.2021 & 5.15-5.30 pm
17	166	Nataraj B, Prabha K R	Design and Analysis of 2.4GHz Rectangular Inset fed Microstrip Patch Antenna for Wi-Fi and WLAN Applications	09.10.2021 & 5.30-5.45 pm
18	169	Mervin Paulraj M, Vijayakumar J	Turmeric Farm Monitoring System using Wireless Sensor Network with ESP32 Module	09.10.2021 & 5.45-6.00 pm



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IEEE-STCR 2021 PAPER PRESENTATION SCHEDULE – DAY 1

Day 1		Date & Time : 09.10.2021 & 12.30 to 6.00 PM		Track 3
Coordinators: Mrs. S. Mythili, Mr. K. Nivesh Kumar, Mr. M. Kalimuthu Session Chair(s): Dr. K. P. Sampooram, Mrs. R. Ramya, Dr. T. Perarasi, Mrs. K. Nirmalakumari, Dr. S. R. Sannasi Chakravarthy, Dr. M. Leeban Moses NOTE: Presentation Link : meet.google.com/ftt-kfwb-jak				
S.No	Paper ID	Authors	Title of the Paper	Date & Time
1	4	Samriti Rana, Sachin Malhotra	Review on Satellite Image Classification based on Fractals	09.10.2021 & 12.30- 12.45 pm
2	27	Sowmya Natarajan, Vijayakumar Ponnusamy	A Review on Quantification of Food Adulteration Detection	09.10.2021 & 12.45- 1.00 pm
3	28	Sowmya Natarajan, Vijayakumar Ponnusamy	A Review on Quantitative Adulteration Detection in Milk	09.10.2021 & 1.00-1.15 pm
4	40	Mokhtar A. Al-Awadhi, Ratnadeep R. Deshmukh	Honey Classification using Hyperspectral Imaging and Machine Learning	09.10.2021 & 1.15- 1.30 pm
5	46	Neetish Borkar, Shubhra Patre, Raunak Singh Khalsa, Rohanshi Kawale, Priti Chakurkar	Music Plagiarism Detection using Audio Fingerprinting and Segment Matching	09.10.2021 & 1.30- 1.45 pm
6	48	Ganesh Babu C, Gowri Shankar M, Priyanka G S, Bhavani K, Dharun D	Analysis and Classification of ECG Signal based on Whale Optimization with Compact Multiclass Support Vector Machine	09.10.2021 & 1.45- 2.00 pm
7	49	Ganesh Babu C, Gowri Shankar M, Priyanka G S, Madhumitha S, Rakshaa Shree M	Coordinated Factor Analysis and Water Wave Optimization (WWO) Classifier for Classification of Arrhythmias from ECG Signal	09.10.2021 & 3.00-3.15 pm



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8	64	Kavya Varma, G. Satyabhama Reddy, Natarajan Subramanyam	Face Image Super Resolution using a Generative Adversarial Network	09.10.2021 & 3.15-3.30 pm
9	80	Nehal Muthukumar	Few-Shot Learning Text Classification in Federated Environments	09.10.2021 & 3.30-3.45 pm
10	87	M.Ramkumar, C.Ganesh Babu, R.Sarath Kumar	Classification of Brain MRI Images using Multi Kernel Support Vector Machines	09.10.2021 & 3.45-4.00 pm
11	92	Izhar Dad Khan, Mudassir Hasan Khan, Omar Farooq, Yusuf Uzzaman Khan	A Comparative Analysis of Seizure Detection via Scalogram using GoogLeNet, AlexNet and SqueezeNet	09.10.2021 & 4.00-4.15 pm
12	105	Sathish Kumar N, Kasiselvanathan M, Vimal S P	Image Splice Detection based on Illumination Inconsistency Principle and Machine learning Algorithms for Forensic Applications	09.10.2021 & 4.15-4.30 pm
13	115	Ankit Srivastava, Gopal Ji , Rabesh Kumar Singh	Application of Deep-learning Architecture for Image Analysis based Corrosion Detection	09.10.2021 & 4.30-4.45 pm
14	119	S.Manochitra, Ravinthiran Partheepan	EEG analysis of Human Perception based on Video-Audio Stimuli	09.10.2021 & 4.45-5.00 pm
15	126	Jinu Sebastian, G. R. Gnana King	Fusion of Multimodality Medical Images- A Review	09.10.2021 & 5.00-5.15 pm
16	150	Thavamani S, Vijayakumar J, Sruthi K	GLCM and K-means based Chicken Gender Classification	09.10.2021 & 5.15-5.30 pm
17	161	Deepa Dhanaskodi, Poongodi Chenniappan, Shoukath Ali K, Perarasi T, Thangavel Palaniappan	Adaptive Threshold and Modified Adaptive Gain Function based Speech Enhancement Algorithm for Digital Hearing Aid	09.10.2021 & 5.30-5.45 pm
18	179	Ramya Deekshitha Karthikeyan, Raghumahendrakumar G, Vinith V, Ganesh Babu C, Kalaiyarasi M	A Review of Lung Cancer Detection using Image Processing	09.10.2021 & 5.45-6.00 pm



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Day 1		Date & Time : 09.10.2021 & 12.30 to 6.00 PM		Track 4
Coordinators: Mrs. K. Sneha, Ms. A. Shyamalapasanna, Mr. T. Sathyanarayanan Session Chair(s): Dr. P. Manojkumar, Dr. A. Dheepanchakkravarthy, Dr. R. Deepa, Mrs. J. P. Shri Tharanyaa, Dr. N. Kanthimathi, Mr. R. Ramkumar NOTE: Presentation Link : meet.google.com/svq-baix-uua				
S.No	Paper ID	Authors	Title of the Paper	Date & Time
1	7	E.Mary Bearly, R.Chitra	Automatic Drowsiness Detection for Preventing Road Accidents	09.10.2021 & 12.30- 12.45 pm
2	18	Sannasi Chakravarthy S R, Harikumar Rajaguru	A Systematic Review on Screening, Examining and Classification of Breast Cancer	09.10.2021 & 12.45- 1.00 pm
3	19	Harikumar Rajaguru, Sannasi Chakravarthy S R	Transformation based Diabetes Classification using Crow-Search Optimization Algorithm	09.10.2021 & 1.00-1.15 pm
4	60	Harikumar Rajaguru, Karthikamani R	Performance Analysis of Classifiers in Detection of Respiratory Disorder through Capnography	09.10.2021 & 1.15- 1.30 pm
5	70	Aishwarya Komanduru Venkata Sai, Eswara Reddy B	Enhancing the Quality of Chest X-Ray Images for Detection of Covid-19 through Data Augmentation Technique	09.10.2021 & 1.30- 1.45 pm
6	78	Mahisha Patel , Amitabh Das , Vineet Kumar Pant, Jayasurya M	Detection of Tuberculosis in Radiographs using Deep Learning based Ensemble Methods	09.10.2021 & 1.45- 2.00 pm
7	94	Renuga Devi S, Gopalakrishnan B, Gayathri K	Detection of Eye Strain using Retina Medical Images through CNN	09.10.2021 & 3.00-3.15 pm



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8	100	Abhijeet Tripathy, Amitabh Das, Mahisha Patel, Ekta Singhai, Smiti Tripathy	Transfer Learning based Noise Classification in Chest X-Ray Images	09.10.2021 & 3.15-3.30 pm
9	113	K Uma Venkata Ravi Teja, B Pavan Venkat Reddy, Likith Preetham A, Hemprasad Yashwant Patil, Poorna Chandra T	Prediction of Diabetes at Early Stage with Supplementary Polynomial Features	09.10.2021 & 3.30-3.45 pm
10	123	Kavya G S, Rajesh T, Ganesh Babu C, Mithra B	Novel Methodology of Niosome Loaded Scaffold for Tissue Regeneration	09.10.2021 & 3.45-4.00 pm
11	134	Amishi Vijay, Barjinder Singh Saini	Fully-Automatic Segmentation of Gliomas using MR Images	09.10.2021 & 4.00-4.15 pm
12	144	Nirmalakumari K, Harikumar Rajaguru, Rajkumar P	Microarray Prostate Cancer Classification using Eminent Genes	09.10.2021 & 4.15-4.30 pm
13	30	Kalaimathi. B, Charumathi.V.S, Aishwarya.T, Annie Prasanna M, Sara Vijayakumar	Raspberry Pi Based Intelligent Car Parking System	09.10.2021 & 4.30-4.45 pm
14	58	Shiv Darshan, Rabesh Kumar Singh, Anuj Kumar Sharma	A Novel Method to Develop an Origami Based Crawler Robot	09.10.2021 & 4.45-5.00 pm
15	65	Kirubakaran S, Kamalanathan C, Karthick S, Raja	Single Phase Energy Management System(EMS) using IoT	09.10.2021 & 5.00-5.15 pm
16	69	Sangeetha Yempally, Sanjay Kumar Singh, S Velliangiri	Review of an IoT-based Remote Patient Health Monitoring System	09.10.2021 & 5.15-5.30 pm
17	111	Velnath Ramanan, Subasri R, Guru Vimal Kumar M, K.T. Dhivya, Senthil Kumar P, Roobini K	Next Generation Smart Garbage Level Indication and Monitoring System using IoT	09.10.2021 & 5.30-5.45 pm
18	136	Vignesh T, Shubin Thomas S, Vibunesh N T, Saktheeswaran G, Prince Paul, Prawin Sankar T A	Technology in Design Aspect of BIN Bot Robot	09.10.2021 & 5.45-6.00 pm

Dr Poongodi C
Professor & HoD-ECE
Conference Chair, IEEE-STCR-2021

Dr Ganesh Babu C
Professor & HoD-EIE
Conference Chair, IEEE-STCR-2021