



**International Conference on Research Trends in  
Engineering & Management (ICRTEM-21)  
- Virtual Conference**

**20th - 21st August 2021**



**Organized By**

**R R Institute of Technology, Bangalore, India**

**in Association with**

**Institute For Engineering Research and Publication (IFERP)**



## *Program Schedule*

### *Conference Schedule - Day 1 (20.08.2021)*

<i>9:30 AM (IST)</i>	<i>Inauguration</i>
<i>10.05 AM (IST)</i>	<i>Keynote Speech by Professor Marwan Al-Akaidi</i>
<i>10:35 AM (IST)</i>	<i>Keynote Speech By Dr. M V Reddy</i>
<i>01:15 AM - 01 : 15 PM (IST)</i>	<i>Technical Session I</i>
<i>01:15 PM - 2:15 PM</i>	<i>Break</i>
<i>02: 16 PM - 05.00 PM (IST)</i>	<i>Technical Session I Continues.,</i>

### *Conference Schedule - Day 2 (21.08.2021)*

<i>10: 00 AM - 12.00 PM (IST)</i>	<i>Parallel Sessions - Technical Sessions II / Technical Session III</i>
<i>12:00 PM - 12:10 PM (IST)</i>	<i>Break</i>
<i>12: 11 PM - 1:15 PM (IST)</i>	<i>Technical session - IV</i>
<i>02:16 PM - 3.00 PM</i>	<i>Valedictory Session</i>



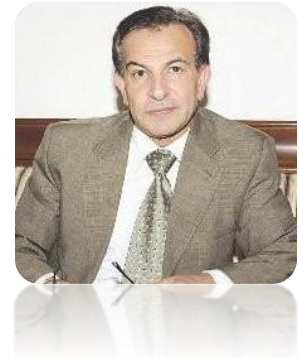
## Keynote Speakers

### **Professor Marwan Al-Akaidi**

Vice President for Research

The American University in the Emirates, Dubai

Chair SPC, IEEE UK & Republic of Ireland



### **Professor Dr. Hatem Hatef Abdulkadhim Alyasari**

Professor of economics, Cihan University

Kurdistan region, Alsulaymaniya



### **Dr. M V Reddy**

Institute of Research Hydro-Québec

Centre of Excellence in Transportation

Electrification and Energy Storage (CETEES)

Hydro-Québec, J3X 1S1, Canada





## Technical Session Chairs

Dr. Manjunath R

Professor & Head,

Department of Computer Science & Engineering

R R Institute of Technology, VTU, Bengaluru



Dr. Mangala Gowri S G.

Associate Professor

Electrical and Electronics Engg Department

R R Institute of Technology



Dr. S.M. SUBASH

Associate Professor & Head

Department of Civil Engineering,

Guru Nanak Institute of Technology, Hyderabad, Telangana





Dr. Ramachandra C. G

Professor

Department of Mechanical Engineering      School of Engineering,  
Presidency University, Bengaluru-560064, Karnataka



Dr V Sasirekha

Professor - Management

Sri Sairam Engineering College, Chennai.



Dr.R.Uma

Professor, CSE Department

Sri Sairam Engineering College



Dr. T. Porselvi

Professor

Department of EEE

Sri Sairam Engineering College





## Technical Session I:

### Department of ECE / CSE

Session Timings : 11.15 AM to 1.15 PM

S No	Paper Title	Author	Co Author
1	Indoor Navigation Using Beacons	Spandana	Veena. S
2	An Analysis Of Deep Learning Models For Dry Land Farming Applications	Mrs.S.Mithra	Dr.Tyj.Nagamalleswari
3	Model Order Reduction And Optimization Of Interval System Using H-Infinity Norm And Genetic Algorithm	Shubham	A N Jha
4	Bearing Fault Detection Using Case Western Reserve University Dataset With Svm Approach	Tushar Anand	Bhavnesk Kumar
5	Eye Disease Detection Using Machine Learning	Sanohi Jatav	Dr Shikha Nema ; Dr Zia Saquib
6	Automatic Fire Detecting And Fire Fighting Robot	B N Mohan Kumar	Abhishek Gowda D, Mohan M, Sai Prashanth S, Tejaswini P
7	Cost-Efficient Arduino Based Automated Washroom Sanitizing System	Aishwarya S	Dr. Sunitha H D
8	Intelligent Accident Detection And Ambulance Rescue System	Rakesh S	Pradeep Bm
9	Comouflage Based Emergency Vehicles Priority With Intelligent Traffic Control Using Movable Road Dividers	Mrs. Anshu Deepak	Greeshma V, Shruthi A.S, Yashaswini G, Ramya B.
10	Design And Implementations Of Humming Bird Cryptographic Algorithm Using Fpga	B N Mohan Kumar	N Nandeesh Reddy, Divya K H, Kishore S , Alangir Badsha
11	Design And Implementation Of Vehicle To Vehicle Communication Using Lifi Technology	Sugnyani Patil	
12	A Survey Paper On Kidney Cancer And Computer Aided Methods For Their Image Segmentation	Anupkumar Bhatulal Jayaswal	Mahesh Bhimsham Dembrani
13	Electronic Voting Machine Using Face Recognition And Fingerprint	Vani	Sowmy, Asha, Mohith



14	Smart Indoor Vertical Farming Using Iot	Parimala Gandhi G	Sushma V, Monika H, Chithra C, Ullas K S
15	Cyber Crime	Anshu Deepak	Greeshma V
16	Longitudinal Stability Analysis of an Aircraft using RBFANN	G Parimala Gandhi	Dr Nagaraj

### Technical Session I Continues.,

### Department of ECE / CSE

### Session Timings : 2.15 PM to 5.00 PM

16	Wireless Sensors Network For Environmental Radiation Monitoring Using Iot	Pallavi Mr	Dr. Sunitha H D, Priyanka N S, Samadrita Roy, Varsha Biradar
17	Review On X2 Handover And S1 Handover In Lte Networks	Divya T M	
18	Predicting The Quantity Of Future Heart Attack Patients Using Random Forest Algorithm	Sarath Chandra Banala	A.Chandra Mouli
19	Design Of Single Axis Solar Tracker	Anshu Deepak	Viresh Hiremath, Amithkumar Yadav, Saikat Barman, Rambati N
20	Cost Efficient Solar Based Multipurpose Crop Cutting Machine	Mrs. Shyamala P	Amith M Y , Bharath V , Vishwas Gowda H R
21	Intelligent Covid-19 Pandemic Bus Service With Safety Measures	Parimala Gandhi G1	Joy Bhowmik2, , Adarsha M P3, , Ajay K S4
22	An Efficient And Modified Vlsi Implementation Of Cdf 5/3 Architecture On Fpga For Image Processing Applications	Saleema	Dr. N V Uma Reddy
23	Brain Tumor Detection From Mri Images Using Matlab Code	Shiva Kumar D N	Kiran C B , Madhu Kumar N, Celeste T
24	Arduino Based Patient Health Monitoring System	Shadakshari	Charutha M V
25	Medical Image De-Noising Using Machine Learning Technique	Charutha M V	Shadakshari
26	Disk-Based Real-Time Applications For Power Consumption	B N Mohan Kumar	Chandru
27	Image Segmentation Of White Blood Cells Using K Means And Gram-Schmidt Organisational Algorithm	Chitharanjan Das V	Dr. Puttamade Gowda J



28	Trash Can Monitoring System In The Smart Cities	Shyamala P	Charutha .M.V
29	Smart Notice Board Using Iot (Internet Of Thing)	Ashok K N	Anil Kumar K
30	Leak Localization On Gas Pipeline Using Acoustic Sensors And The Music Algorithm	Ghassan Alnwaimi	Hatem Boujemaa, Feras Alfosail, Nebras Sobahi
31	Kannada Handwritten Character Recognition (KHCR): A Literature Review	Siddanna S R	Dr. Kiran Y C

## Technical Session II

Department of EEE

Session Timings : 10.00 AM – 12.00 PM

S No	Paper Title	Author	Co Author
1	Fundamental Frequency Estimation And Analysis Of Speech Signal	Mahesh M. Kamble	Tejal S.Bandgar
2	Interleaved Boost Converter Based Bldc Motor Drive Solar Pv Array Fed Water Pumping System	Shailesh Kumar	Shashi Bhushan Singh
3	Wireless Charging Of Electric Vehicle In Smart Cities	Bidhya Chhetri	Sunanda C V
4	A Wireless Sensor Networks For Forest Fire Detection And Monitoring Using IOT	Deepty Thapa	Ramachandra C, Sandeep Pandey
5	Smart Solar Power Management System For Domestic Purpose	Pratik Chaudhary	Sikindra Kr Thakur, Vikash Kumar Sah, Arun Prasad Yadav, Dr. Mangala Gowri S G
6	Conversion Of Waste Heat Into Electricity Using Teg	Shifanaaz A	Gowtham G
7	Speed Control Of Dc Motor By Using Soft Starter	Mohammad Safiullah Musalman	Gowtham G
8	3-Phase Failure Detection And Voltage Measurement Using Arduino	Akash Kumar Singh	Amit Kumar Singh, Embdorka Syiem
9	Design Of Hybrid Electric Vehicle With Solar Energy And Wireless Charging	Sunanda C V	G Gowtham, Ramachandra C
10	Light-Fidelity (Li-Fi): Transmission Of Data Through Light Of Future Technology	Bharath Kumar K	Vaibhav S Biradar Gagan Kumar Dr. Mangala Gowri S.G
11	Iot Based Flood Management And Alerting System	Ramachandra C	Sandeep Pandey, Deepti Thapa
12	Eeg Data Processing For Emotion Detection Using	Mangala Gowri S G	Sunitha H D , Sneha





	Dtcwt And Ffnn Architecture Design		Joesphine
13	Hybrid Optimization Control Algorithm For Grid Connected Pv System	Gayathri Devi K.S.	P.Sujatha Therese
14	Radar System Using Arduino And Ultrasonic Sensor	Varun K	Bharath Kl
15	A New Cascaded Two Level Inverter Based Multilevel Statcom For High Power Applications	Vyshnav.B	Akshatha R Hegde, Pradeesha J
16	Performance Analysis Of Distributed System By The Placement Of Dg Considering Load Growth	Pradeesha J	Vyshnav B, Akshatha R Hegde
17	Improved Output From Buck-Boost Converter For Commercial Loads	Akshatha R Hegde	Vyshnav B, Pradeesha J
18	Electricity Theft Detection	Lenin Selva M	Monish R & Sankarnarayanan P & Dharsan S

### Technical Session III

#### Department of Mechanical Engineering

Session Timings : 10.00 AM – 12.00 PM

S.No	Paper Title	Author	Co Author
1	Friction Stir Additive Manufacturing In Align With Industry 4.0 - A Review	S.Deivanai	Dr.Manoj Soni
2	The Influence Of Boron Nitride Reinforcement On Physical And Mechanical Properties Of Polyethylene Terephthalate (Pet)	Mahesh K	Dr. Anand. S. Sonnad, Dr. S. B. Kerur
3	Experimental Investigation And Vibrational Analysis Of Laminated Composite Beams With Multiple Edge Cracks	Vishal Omprakash Jadhav	Prof. Dr. Harshal Ashok Chavan
4	Case Study On The Effect Of Chilling To Reduce Shrinkage Defect On Cast-Iron Castings	Veeresh Gurav	Veeranna
5	A Short Review On Measuring Impact Of Microencapsulated Phase Change Material In Mitigating Urban Heat Island	G.R. Gopinath	S. Muthuvel
6	Behavior Of Wear And Corrosion Resistance Of Thin Film Coated Titanium Alloy Substrate	Anoop Joshi	Sanjay T Setty

#### Department of Civil Engineering

S No	Paper Title	Author	Co Author
1	Optimisation of energy demand based on thermal comfort criteria for an office building in the tropical	Poornima Kurup	



	warm humid climate		
2	Application of Lean Six Sigma in construction industry	Asmita Chandrakant Ghule	Prof. Satish Waysal
3	Application of Non – linear isotherm models for Adsorption of Chromium uptake by Agricultural waste based adsorbents	Soibam Sangeeta	Thiyam Tamphasana Devi, Potsangbam Albino Kumar
4	Identification of adsorption mechanism for Iron uptake by activated carbon derived from Alocasia indica	Reenarani Wairokpam	Potsangbam Albino Kumar and Anuj Kumar Purmar
5	Assessment of land suitability for solid waste disposal and leachate treatment by waste derived Parkia Speciosa (Petai) pods activated carbon	Vivek Laishram	Oinam Bakimchandra, Potsangbam Albino Kumar
6	Investigation of fluoride uptake by chlorine doped polyaniline in continuous column mode operation	Sarungbam Pipileima	Potsangbam Albino Kumar

## Technical Session – IV

**Department : Management & its Allied Branches**

**Session Timings : 12.00 PM – 01.15 PM**

S No	Paper Title	Author	Co Author
1	Women Empowerment In India: Issues & Challenges	Namratha Murthy	Dr.Sunitha H D
2	Need For Autonomus System to Revolutionise The Indian Banking Industry – A Study Of Blockchain Technology	Richa Kashyap	Mr. Vivek Saurav
3	Congruence Between Cause Marketing Campaigns and Purchase Intention Towards Consumers – An Analysis	M.Ancy Raja Nathiya	Dr.K.Asha,
4	Forensic Accounting: A Paradigm Shift of Auditing	Seema Devi	Prof. Ram Ratan Saini
5	Roxas City the Seafood Capital Of The Philippines: Myth Or Fact?	Arcega, I.,	Mirasol, P.J., Malayang, S.J., Besiño, A., Moleño, L.
6	Optimization Of Physical Parameters for Production Of Antimicrobial Compound By Aspergillus Flavus Mtcc 13062 Using Response Surface Methodology	Shruti Dudeja	Anil Kumar
7	Consumer Behaviour In Rural Markets	Anjali Chopra	