



# International Conference On Advances In Engineering Science And Technology

**ICASET 2021 – Virtual**



**21<sup>st</sup> & 22nd May 2021**

**Jointly Organized By KSRM College Of Engineering, Kadapa  
(Autonomous)**

## KEYNOTE SPEAKER'S

**Prof. C.D. Naidu**

**Principal**

**VNRVJIET, HYDERABAD**



**Prof. Moshe Vardi**

**Professor**

**Rice University**

**Texas, United States**

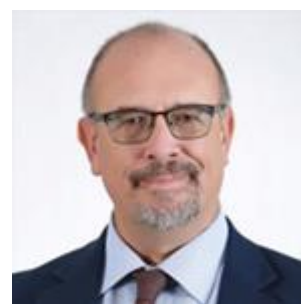


**Prof. Dr. Ernesto Damiani**

**Professor**

**Università Degli Studi Di Milano**

**Italy**



### **Conference Schedule - Day 1 ( 21.05.2021)**

<b>9:30 AM (IST)</b>	<b>Inaugural Session</b>
<b>9.51 AM (IST)</b>	<b>Keynote Speech By Prof. C.D. Naidu</b>
<b>10:15 AM (IST)</b>	<b>Keynote Speech By Prof. Moshe Vardi</b>
<b>10.40 AM (IST)</b>	<b>Keynote Speech By Prof. Dr. Ernesto Damiani</b>
<b>011: 15 AM -01:30 PM (IST)</b>	<b>Session 1 &amp; Session 2 (Technical Sessions)</b>
<b>01: 15 PM -04:00 PM (IST)</b>	<b>Session 3 &amp; Session 4 (Technical Sessions)</b>

### **Conference Schedule - Day 2 ( 22.05.2021)**

<b>10: 00 AM (IST)</b>	<b>Address By Session Chairs</b>
<b>10:15 AM-01:00 PM (IST)</b>	<b>Session 5 &amp; Session 6 (Technical Sessions)</b>
<b>01: 00 - 2:00 PM (IST)</b>	<b>Lunch Break</b>
<b>03: 00-04:00 PM (IST)</b>	<b>Valedictory Session</b>

## Technical Session I

### Department Of CSE/ ECE

#### Session Chairs:

- **Dr. Anil Kumar Vuppala,**  
**Associate Professor, ECE, IIT, Hyderabad**

S.No	Time	Paper Title	Author Name	Co Author Name
1	11.15 Am - 11.25 Am	Identifying Parkinson's Disease Using Xgclassifier On Gait Analysis	Monika Sree Velampudi	Dr. R. Ramalakshmi
2	11.26 Am - 11.35 Am	An Optimization Of Image Enhancement And Segmentation Using Pso On Pap Smear Images	Jaya	Latha
3	11.36 Am - 11.45 Am	Identifying And Differentiating Pseudo Reviewer Groups In Online Product Reviews	Ramakanth Maddineni	Shreya Sahu , Adith R Babu
4	11.46 Am - 11.55 Am	Crime Analysis And Prediction Against Women Using Logistic Regression And Roc Methods	P.Tamilarasi	Dr. R.Uma Rani
5	11.56 Am - 12.05 Pm	A Lightweight Stemmer For Telugu Of Indian Language	Madri Vijaya Raju	Dr.M.Sreenivasulu
6	12.06 Pm - 12.15 Pm	Affine Transform Assisted Firefly Algorithm In Image Registry To Mri And Ct Brain Images	B. Suresh Babu	Dr. M.Venkata Narayana
7	12.16 Pm - 12.25 Pm	A Real-Time Implementation For The Speech Steganography Using Short-Time Fourier Transform For Secured Mobile Communication	Dr Rajeev Shrivastava	Subrahmanya Raviteja
8	12.26 Pm - 12.35 Pm	Sub-Threshold Voltage Operated High Speed Domino Logic Or And And Gates	Shrivastava Komal	Parul Garg , Syed Zahiruddin, And Avireni Srinivasulu Dr.D.Eswara
9	12.36 Pm - 12.45 Pm	Gsm Based Intruder Alert And Smoke Detection System	Ch.Radha Samalamkrutha	Chaitanya, J.Kavyasree , B.Durgaprasad

Naik, D.Mukesh  
Kumar

10	12.46 Pm - 12.55 Pm	Comparative Analysis Of Cntfet Based Sram Cells	Aswini Valluri	, Sarada Musala2
11	12.56 Pm - 1.05 Pm	A Sense Amplifier Based Modified Low Voltage Two Stage Flip-Flop With Cntfets	Parul Garga	Komal Shrivastavaa, , Avireni Srinivasulua,* , Jyothi Sharmab
12	1.06 Pm - 1.15 Pm	Power Rail Esd Protection Design Methodology Using Voltage-Gain Inverter Based Feedback Technology	Kavita Unnikrishnan	Avireni Srinivasulu
13	1.16 Pm - 1.25 Pm	An Ensemble Based Hybrid Feature Selection Method For Speech Emotion Recognition	Kesava Rao Bagadi	Chandra Mohan Reddy Sivappagari

## Technical Session II

### Department Of Civil Engineering

#### Session Chairs:

- **Dr. B. Sudharshan Reddy Professor, Dept Of CE, MREC  
(Autonomous)**

S.No	Slot Time	Paper Title	Author Name	Co Author Name
1	11.15 Am - 11.25 Am	Behaviour Of Rc Beam With The Combination Of Nse Frcm & Eb Frcm	Selja A Selvester	Rakhil Elizabeth
2	11.26 Am - 11.35 Am	Strengthening Of Reinforced Concrete Flat Slabs	Rifa Reji	Deepa Joseph
3	11.36 Am - 11.45 Am	Response Spectrum Analysis Of G+5 Story Building With Different Types Of Stair Cases	Rasheed Khan Patan	

4	11.46 Am - 11.55 Am	Paper Title	Pathan Afroz Khan	T. Raghavendra
5	11.56 Am - 12.05 Pm	A Generalized Study On Frp Cable Based Progressive Collapse Mitigation Technique For R.C Beam	Rohit Ravikumar	Dr. Beena K P
6	12.06 Pm - 12.15 Pm	Behaviour Of Steel Beams Under Localized Fire	Praveena Elizabeth Pius	Prince George
7	12.16 Pm - 12.25 Pm	Effectiveness Of Composite Slim Floor Beams With Dowel Shear Connection	Bhavana Biju	Mariamol Kuriakose
8	12.26 Pm - 12.35 Pm	Shear Bond Behaviour Of Composite Slab With Profiled Steel Deck And Ecc	Soniya John	Asha Alice Kulavattam
9	12.36 Pm - 12.45 Pm	Thermal Analysis Of Prefabricated Building Using Pcm (Phase Change Materials)	Anaya John	Rakhi Elizabeth Thankachan
10	12.46 Pm - 12.55 Pm	Study On Behaviour Of Cfst Column Wrapped With Sfrp Sheets	Meera Mary Thomas	Rakhi Elizabeth Thankachan
11	12.56 Pm - 1.05 Pm	Study Of Different Ecc Beam Column Joints	Parvathi Rajeev	Dalmiya Rajan
12	1.06 Pm - 1.15 Pm	Nonlinear Buckling Analysis Of Double Skin Composite Column With Different Frp Wrapping Scheme	Neethu Robin	Neethu Joseph
13	1.16 Pm - 1.25 Pm	Analysis Of Cable Stayed Bridge Under Vehicular Load Using Ansys	Ashika Jose	Dalmiya Rajan
14	1.26 Pm - 1.35 Pm	Optimization Of Wind Turbine	Irene Chinnu George	Manish Jose

## Technical Session III

### Department Of ME / Others

#### Session Chairs:

➤ **Dr. M. Ravi Shankar, Associate Professor, ME, IIT, Tirupati**

S.No	Slot Time	Paper Title	Author Name	Co Author Name
1	1.15 Pm - 1.25 Pm	Behavior Change Of Diesel Engine Fueled With Calophyllum Oil Biodiesel Blend Under 150 Hours Endurance Test	Rahul Krishnaji Bawane	Chetan Choudhary
2	1.26 Pm - 1.35 Pm	An Experimental Investigation On Combustion Behavior Of Moringa Oleifera Biodiesel-Diesel-Carbon Black Water Emulsion Blends In Agricultural Diesel Engine	Dr.D.Babu	Selvakumar Ramalingam, D. Ravikanth, K. Sureshkumar, U. Pradeepkumar, V. Sathiyamoorthy
3	1.36 Pm - 1.45 Pm	Experimental Investigation On Greenhouse Emissions Reduction In Diesel Engine Fuelled With Moringa Oleifera Biodiesel-Diesel-Carbon Black Water Emulsion Blends	Mr. Harikrishna	D. Babu, P. Sreenivas, J. Suresh Babu, Bhanu Prakash Palampalle, S. Chandra Sekhar
4	1.46 Pm - 1.55 Pm	An Moora And Waspas Methods Application For Optimal Material Selection From Aluminium Graphene Nano Platelets Composites	Bhanu Prakash Palampalle	D Ravikanth, D Merwin Rajesh, B Devika And D Babu
5	1.56 Pm - 2.05 Pm	Application Of Bio Oil And Biochar Obtained From Biomass Pyrolysis In Composite	R.Saravanan Sathiya Prabhahar	R.Saravanan
6	2.06 Pm - 2.15 Pm	Analysis For Reduced Order Observer Design In Wide Area Control Of Interconnected Power System	B. Varun Kumar	D.S.G.Krishna S. Poornima
7	2.16 Pm - 2.25 Pm	Recent Trends In Smart Materials - An Overview	M. Shilpa	M.Shilpa, Pavankumar M V, Shreyansh S, Kunal J, Aadarsh B
8	2.26 Pm - 2.35 Pm	Control Charts Based On The Weighted Power Lindley Distribution	D. Venkatesan1	Jaimole V.M.2

9	2.36 Pm - 2.45 Pm	Intelligent Road Lightning Design Using Wireless Sensor Network	Sreekantha.B	Rakheeba Taseen , Shruthi K C ,Priyanka K Akshay Mithare 2 , Sushil Yebaji 2 , Shanmugasundaram T.
10	2.46 Pm - 2.55 Pm	Effect Of Co Content On Corrosion Behavior Of Cocrfemni High Entropy Alloy	Sudeep Kumar	Dr.P.Muralikrishna, Dr.M.Rama Devi And Dr.M.Kalyani
11	2.56 Pm - 3.05 Pm	Micelle Mediated - Kinetic Study Of Oxidation Of Xanthine Derivatives By Ru(Iii) In Acetonitrile	Shylaja	Prof. Pravir Kumar
12	3.06 Pm - 3.15 Pm	To Identify Neuroprotective Potential Of Anti-Diabetic Drugs For Alzheimer's Disease (Type Iii Diabetes).	Vanshika Arora	



## Technical Session IV

### Department Of EEE/ECE

#### Session Chairs:

- **Dr. Sreedhar Madichetty**  
**Senior Research Scientist,**  
**Trinity College**  
**Dublin**

S.No	Time	Paper Title	Author Name	Co Author Name
1	1.15 Pm - 1.25 Pm	Fast Algorithm For Intra Frame Partition-Prediction Using Dual Tree Complex Wavelets For HEVC Encoding And Decoding	V MADHURIMA	Dr.K Padmapriya
2	1.26 Pm - 1.35 Pm	Online Signature Recognition Using Multilayer Perceptron Model	Maheshkumar B. Landge	Dr. C. Namrata Mahender
3	1.36 Pm - 1.45 Pm	Weather Prediction Using Advanced Machine Learning Techniques	Dr. DASARI ARUN KUMAR	Dr. G. HEMALATHA, Dr. K. SRINIVASA RAO
4	1.46 Pm - 1.55 Pm	CURVELET TRANSFORM BASED DENOISING OF MULTISPECTRAL REMOTE SENSING IMAGES	P.LOKESHWARA REDDY	:Dr. S.L.PRATHAPA REDDY N. Radha Krishna
5	1.56 Pm - 2.05 Pm	Intelligent System For Fault Diagnosis Of Auto Mobile Engine By Using Off-Board Digital Analyzer.	S. Munawar Ali	P.Krishna Teja Yadav Hemanth AM, Chethan MS, Mrs. Manasa KR
6	2.06 Pm - 2.15 Pm	Face Mask Detection Using Machine Learning	Md Sayeed	GADDAM A SANJEEVA REDDY, R.V.SREEHARI
7	2.16 Pm - 2.25 Pm	Automatic Classification Of Cardiac Arrhythmias Based On ECG Signals Using Transferred Deep Learning Convolution Neural Network	P.GIRIPRASAD	Mulli Eswara Prasad , Bhukya Arun Kumar
8	2.26 Pm - 2.35 Pm	Remote User Authentication Key Protocol For Security Establishment Of A Smart Home Environment	Shagamreddy Vasanth Reddy	
9	2.36 Pm - 2.45 Pm	Automatic detection of the coronavirus Disease(Covid-19)By using x-Ray images and deep Convolutional neural networks	UMESH CHANDRA LINGAYATH	S Raviteja Reddy

10	2.46 Pm - 2.55 Pm	Accident & Alcoholic Detection Surveillance Robot	M.Rajani Devi	V.Jyothi
11	2.56 Pm - 3.05 Pm	Power Quality Enhancement On Distribution Systems Using UPQC	K Kalyan Kumar	Saleha Tabassum
12	3.06 Pm - 3.15 Pm	An Experimental Analysis Of Degradation Of Cellulosic Insulating Material Immersed In Natural Ester Oil For Transformer	CH Hussaian Basha	T.Mariprasath
13	3.16 Pm - 3.25 Pm	A Novel Reference Current Extraction Technique With Two-Step Horizon Optimal Switching Vector - Model Predictive Control For Shunt Active Filter	KUMAR REDDY CHEEPATI	K Amaresh
14	3.26 Pm - 3.35 Pm	Analysis Of Microgrid System With Photovoltaic Array	N.SIDDHK	K.Ramamohan Reddy
15	3.36 Pm - 3.45 Pm	Commutation Torque Ripple Suppression Strategy For NIBFE Fed BLDC Motor.	Reenamol Robert	Sandhya P
16	3.46 Pm - 3.55 Pm	Enhancement In The Quality Of Power Of A Grid Tied Solar PV System Using Recursive Digital Filter Based Control	T. Naresh	S. Khadarvali

## Day 2: 22<sup>nd</sup> May 2021

### Technical Session V

### Department Of Civil Engineering

#### Session Chairs:

- **Dr. B. Janaki Ramaiah Assistant Professor**  
**Dept Of CE, IIT, Tirupati**

S.No	Slot Time	Paper Title	Author Name	Co Author Name
1	10.15 Am - 10.25 Am	Regression Analysis On Compaction Characteristics Of Sand Clay Soils	Gondiparla Jagadeesh	V.Giridhar, P. Rajendra Kumar
2	10.26 Am - 10.35 Am	Thermal Buckling Of Functionally Graded Cylindrical Vaults	Alphonsa Antony,	Neethu Joseph
3	10.36 Am - 10.45 Am	Web Crippling Behaviour Of Lipped Channel Beam Under One Flange Loading	Riya Abraham,	Deepa Joseph
4	10.46 Am - 10.55 Am	Strength Analysis Of Layered Sandwich Beam	Mariya Mathew	Deepa Joseph
5	10.56 Am - 11.05 Am	Nonlinear Buckling Analysis Of Laminated Composite Twisted Plates	Amala Sebastian	Manish Jose
6	11.06 Am - 11.15 Am	Stress Analysis Of Buried Damaged P.E Gas Pipe	Dani Jacob	Prince George
7	11.16 Am - 11.25 Am	Analysis Of Truss Bridge And Cost Optimization By Using Hollow Sections	Arunima Satheesh	Manish Jose
8	11.26 Am - 11.35 Am	Pitting Corrosion In Steel Plate	Sethulakshmi Km	Bennet Kuriakose
9	11.36 Am - 11.45 Am	Seismic Performance Of Fire Exposed Steel Box-Column To H-Beam Connection	Amalu Ravi	Asha Alice Kulavattam

10	11.46 Am - 11.55am	Thermal Analysis Of Cold-Formed Steel Column	Theertha P S	Asha Alice Kulavattom
11	11.56 Am - 12.05 Pm	Evaluation Of Strength Characteristics Of Structural Lightweight Concrete Reinforced With Micro Steel Fibers	Mithra M	Dr.I.Padmanaban
12	12.06 Pm - 12.15 Pm	State -Of -Art On Materials For 3d Concrete Printing	E.Swethan	G.Gowtham
13	12.16 Pm - 12.25 Pm	Behavior Of Slab - Column Joint Under Lateral Cyclic Loading	K.N.Suganya Natarajan	
14	12.26 Pm - 12.35 Pm	Compressive Strength Of Lattice Structure Using Fea – A Review	Amal Thankachan	S Muthulakshmi
15	12.36 Pm - 12.45 Pm	Performance Of Strength And Moduli Characteristics Of Ceramic Waste Aggregate Concrete (Cwac)	Valikala Giridhar	Hunchate Sudarshana Rao . P.Rajendra Kumar
16	12.46 Pm - 12.55 Pm	Water Budget Estimation In Water Resources Management In Drought Prone Areas In Rayalaseema Region, South India	Dr.T. Kiran Kumar	K. Niveditha
17	12.56 Pm - 01.05 Pm	A New Approach To Single Chambered Microbial Fuel Cell For Procreation Of Bioenergy In The Treatment Of Sugar And Dairy Wastewater	Sunil Umachagi	Mahantesh N Paruti, Miryala Vijayakumar
18	01.06 Pm - 01.15 Pm	A Study On Pre-Timed And Vehicle Actuated Signal Control	Sadguna Nuli	Rishitha Buggaveeti

## Technical Session VI :

### Department Of Maths / Physics / Chemistry / Bio Chemical

#### Session Chairs:

- **Dr. M.V.Sankar, Prof. And Head**  
**Dept Of Materials Science And Nanotechnology**  
**Yogi Vemana University, Kadapa**

S.No	Slot Time	Paper Title	Author Name	Co Author Name
1	10.15 Am - 10.25 Am	Study On Acoustic And Volumetric Properties Of Binary Liquid Mixtures Of Sulfolane With N-Pentylamine, 2-Aminopentane And 3-Amino Pentane At 303.15k. An Insight From	Murali Krishna	Dr.S.Shylaja, Dr.M.Rama Devi And M.Amarnath
2	10.26 Am - 10.35 Am	Physicochemical Parameters Kinetic And Thermodynamic Studies Of Sorption For Toxic Heavy Metal Cr (Vi) Ion On Bentonite Clay From Wastewater	Priyanka Rathore	
3	10.36 Am - 10.45 Am	Synthesis Of Bulk And Nano Sized Nbtip 3 O 12 At Low Temperature Using Sol-Gel Technique	Dr. M. Rama Devi	Dr. S. Shylaja, Dr. P. Muralikrishna
4	10.46 Am - 10.55 Am	Parametric Analysis And Optimization For Proton Exchange Membrane (Pem) Fuel Cell Using Design Of Experiments Technique	Dr. Shaik Shadulla	Dr. M. Gangadhar
5	10.56 Am - 11.05 Am	Synthesis Of Novel Phosphorylated Derivatives Of (R)-1-(6-Amino-9h-Purin-9-Yl) Propan-2-Ol And Their Antiviral Activity	K. Venkata Ramana	I. Sreevani A , C. Naga Raju B K. Venkata Subbaiah

6	11.06 Am - 11.15 Am	Correlation Of Pico-Capacitance, Nano-Inductance And Frequency Of Advanced Materials With Emerging Pico Technology	Dr. Alla Srivani,	Dr Charugundla Nagarathnamaiah, Syed Beeban Basha, Praveen Kumar Namburu, Dasari Sreedhar
7	11.16 Am - 11.25 Am	Cdk Inhibition As A Key Regulator Of Aberrant Cell Cycle Re-Entry For Targeting Alzheimer's Disease	Nishtha Malhotra	Prof. Pravir Kumar
8	11.26 Am - 11.35 Am	Structural, Optical And Magnetic Properties Of Fe 3+ Doped Cdo/Zns Nanocomposites	Dr. R. Joyce Stella	Sreevani , Dr. G. Thirumala Rao, Dr. R.V.S.S.N. Ravikumar
9	11.36 Am - 11.45 Am	Analysis Of Heavy Metals In Two Fish Species (In-Vivo) Of Dal Lake-Kashmir (India)	Juhi Firdous	Yatindra Kumar Mathur, 3 Mubashir Jeelani
10	11.46 Am - 11.55 Am	Production Of Xylanase From Agro Residues	Lucky Dubey	Lalit Kumar Singh
11	11.56 Am - 12.05 Pm	Production Of Recombinant Protein In Mammalian Cell Culture: Process Monitoring And Media Optimization	Mangalam Bajpai	Lalit Kumar Singh
12	12.06 Pm - 12.15 Pm	Utilization Of Agri-Residue Corncob For The Production Of Xylitol	Kopal Jain	Lalit Kumar Singh
13	12.16 Pm - 12.25 Pm	Production Of Bioethanol From Sugarcane Bagasse Using Saccharomyces Cerevisiae	Gauri Dixit	Brajesh Singh And Dilip Kumar
14	12.26 Pm - 12.35 Pm	Production Of Bio-Ethanol From Banana Peel By Simultaneous Saccharification And Fermentation Process Using Co-Cultures Saccharomyces Cerevisiae And Aspergillus Niger .: A Review	Akshita Rai	Brajesh Singh And Dilip Kumar

- |    |                        |  |                |                   |
|----|------------------------|--|----------------|-------------------|
| 15 | 12.36 Pm -<br>12.45 Pm | Cyanobacteria: A Primary Source Of Bio-Fertilizer For Crops In Agriculture | Dharm Singh    | Brajesh Singh     |
| 16 | 12.46 Pm -<br>12.55 Pm | Decolorization Potential Of Laccase Derived From Pleurotus Ostreatus       | Shruti Chauhan | Lalit Kumar Singh |

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