

CONFERENCE REPORT

EQUINOX - 2022

**7th International Conference On
Engineering Research and Innovations-
(ICERI-2022)
Virtual Conference**

Date: 22nd & 23rd September 2022

Organized By,
Terna Engineering college (TEC), Nerul, Navi Mumbai

In Association with,
Institute For Engineering Research and Publication (IFERP)

ISBN: 978-93-92105-03-6

Event Summary

Event Name: EQUINOX-2022 - 7th International Conference On Engineering Research and Innovations-(ICERI-2022)

Date: 22nd & 23rd September 2022

Conference Organisers: Terna Engineering college (TEC), Nerul, Navi Mumbai. In Association with IFERP.

Delegates: 127 Papers Registered

Overview:

ICERI 2022 Organized By TEC & IFERP Was Held on 22nd & 23rd September, 2022 As Virtual Conference And It Was Held Under The Auspices Keynotes **Prof B V Babu**, Dean, School of Engineering and Sciences (SEAS), SRM University Andhra Pradesh. and **Shri Ashish Chugh**, Assistant Director General, Indian Telecom Service/ITS, Department of Telecom, Government of India Hyderabad, Telangana, India, Also, **Ir. Dr. Mohammed Alias Yusof**, Professor, Department of Civil Engineering, National Defense University of Malaysia, Sungai Besi Military Camp, 57000 Kuala Lumpur, Malaysia. Along with, **Prof.Tarik A Rashid**, Professor, University of Kurdistan Hewler (UKH) National Defense University of Malaysia, Erbil, Iraq.

The conference aims to bring together the leading Academicians, Scientists, Researchers and Research Scholars to exchange and share their experiences and research results over all aspects of Communication, Computing and Industrial Engineering towards sustainable development. The conference aims to convene the experts from various domains to enhance the knowledge about innovative technologies and present new research findings to promote global scientific and community collaborations in synergy with other Professional Associations.

Environmental Responsibility, Economic Efficiency, Social Solidarity, Digital Transformations are the avenues as well as needs of modern business sectors. The achievement of the desired sustainable development with the help of digital transformation seems to be impractical without raising good critical thinkers and skillful agents of sustainable future. The conference aims to facilitate pursuing the sustainable development through the Digital Transformation, Innovations and modernized technologies of the related systems and structures that will consequently support people to be active contributors to more peaceful and sustainable societies and develop a sense of responsibility for our Planet.

The Conference Attracted 226 Authors Of Various Fields To Come Forward To Register For ICERI 2022, Which Includes Students, Faculties, Research Scholars From Various Departments Of Various Categories Like UG & PG Students, Researchers, Technical Persons From Industries, Professors & Heads And So On. Most Of the Presentations Were Adhered With Advancement, Inclusion Of Agri sight, Engineering & technology, Algebraic Subjects, Mathematical Calculations And Electronics Applications.



Delegate Registrations:

Total Abstracts: 226

Registered: 124

Virtually Presented: 80+

With 4 Keynotes (2 Keynotes for Day 1 and 2 Keynotes for Day 2), 09 Session Chairs Which Includes External As Well As Internals From Colleges Who Made The Session As Knowledge Packed With Various Questionnaires And Discussions With Presenters

Conference Committee:

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Prof.Vishal Bodhale - **Assistant Professor(GE)**, Terna Engineering College

Keynote Speakers:

<p>Prof. Tarik A Rashid Professor University of Kurdistan Hewler (UKH) Erbil, Iraq</p>	
<p>Prof B V Babu DEAN, School of Engineering and Sciences (SEAS), SRM University Andhra Pradesh</p>	
<p>Shri Ashish Chugh Assistant Director General, Indian Telecom Service/ITS, Department of Telecom, Government of India Hyderabad, Telangana, India</p>	
<p>Ir. Dr. Mohammed Alias Yusof Professor, Department of Civil Engineering National Defense University of Malaysia, Sungai Besi Military Camp, 57000 Kuala Lumpur, Malaysia</p>	

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DR. ANIMESH KUMAR SHARMA	Raipur Institute of Technology	Raipur	Mathematics
Dr. M. Ravindra	Aditya College of Engineering	Surampalem	Electrical and Electronics Engineering

Abstract Process:

1. Planogram Automation and Shelf Space Planning: The Need of the Hour

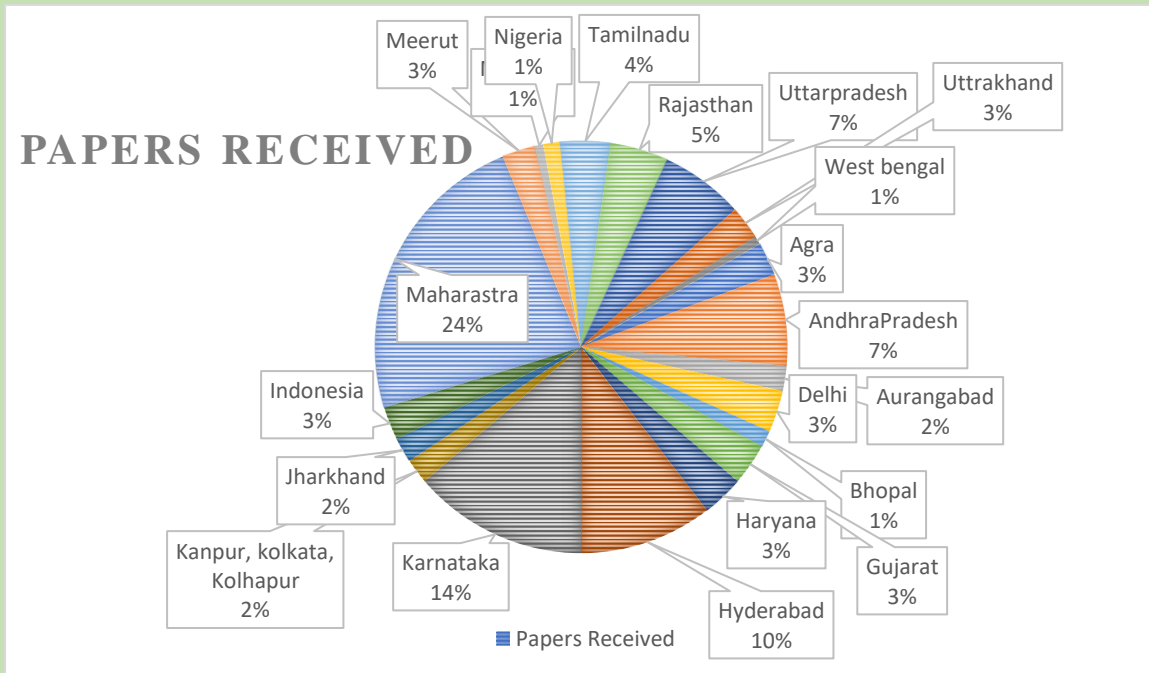
2. Review On Improve Techniques of Direct Torque Control for IM Using Minimum Voltage Vector Error
3. A Review on Non-isolated DC-DC Converters for Electric Vehicle Applications
4. Characterization of Fluid Flow in Helical Coils for Newtonian and Non-Newtonian Fluids
5. Analysis of Power System with Distributed Generation for Allocation of Hybrid Type Superconducting Fault Current Limiter
6. A DWT- GLCM Technique for Image Watermarking
7. A Proctored Interface for the Conduction of Online Examinations
8. Hybridization of KF and GA as a Predictive Algorithm for Reduction of Power Consumption in a Cloud Computing Data Centre
9. Air Duct Inspection Robot
10. Fish Farming using Smart Monitoring System in Biofloc Technology
11. Effect of modifying bowl geometry for IC engine fuelled with diesel and Bio fuels - Review
12. A Review on Techniques to mitigate NO X in CI Engine fueled with various biodiesel blends
13. Comprehensive review on recent MAC protocols in Wireless sensor network
14. Multimodal recognition using dominant region of imperfect face and gait cues using Median-LBPF and Median-LBPG based PCA followed by LDA
15. Parametric Analysis of Copper Nanofluid Based Mixture For the Improvement of Heat Transfer
16. Prediction of Physical and Mental Health Disease using Machine Learning (Web Application)
17. Enriching employee experience through HR-Bot-based e-HRM: A study in aditya birla fashion & retail ltd
18. Background Noise Suppression Using Deep Learning in online mode Teaching Learning
19. Laboratory Study of crumb rubber as an additive for bitumen modification in road construction
20. Factors Influencing Informal Entrepreneurship: Exploring Home Based Women Entrepreneurs
21. Experimental Investigation on Strength of RC Beam using Geopolymer Concrete and adopting Bubble Deck method as a Green Technology
22. A Machine Learning based Optimal Analysis of Cyber Crime Data
23. Parametric Study of ECM while machining EN 31 Tool Steel Using Taguchi Method
24. Current Issue on Supply chain Knowledge Management for future research: A Literature review
25. A secure safety monitoring framework for Deep Seabed Mining
26. Security and privacy aspect of AI and IoT in Healthcare Industry: A Comprehensive Review
27. Deep Learning Based Skin Tumor Detection
28. Dam Failure Analysis and Flood Inundation Mapping For Harangi Reservoir Karnataka
29. Introduction To Deep Learning And its Related Case Studies

30. A Comprehensive overview of MNIST and EMINIST datasets for Handwritten Digit and Character Recognition
31. Insights on Cyber Attacks and Potential solution for cybersecurity in the Era of COVID 19
32. Impact of Anomaly on Performance in IoT enabled Smart City, A Review
33. Human Activity Recognition using Smartphone sensors' data
34. State-Of-The-Art of zinc oxide nanoparticles - Synthesis and technological applications
35. Impacts Of Intensive And Non-Intensive Recreation/Tourism Based Reclamation Strategy In Abandoned Mines
36. Planning And Implementation Of Tourism Evaluation Tool To Town Planning And Infrastructure For Competitive Place-Making
37. Role of Denoising using CBDNet and UNet for Biomedical Imaging
38. A Study On Collaborative Learning And Identification Of Expressions Of Learners To Improve The Performance Of Learners
39. Performance Study Of Sbr With The Evaluation Of Recovering Phosphorous And Nitrogen From Domestic Wastewater In Puducherry Region
40. Design and Analysis of Opposed Piston Compressor
41. Agile Project Management Awareness status of Final year students of Engineering Graduation Programme At Mumbai University
42. Influence of geosynthetic reinforcement on load settlement behaviour of soft soil for flexible pavement application
43. Human Fall Detection Using Gaussian Mixture Model and Fall Motion Mixture Model
44. Enhanced Framework For Software Defined Wireless Body Area Network Technology
45. Predictive Model on Fake News Detection using Supervised Machine Learning Algorithms in Real-Time
46. Improving the Pavement performance by incorporating Geocell reinforced granular base with Basal reinforcement
47. Automated Short Answer Evaluation using Natural Language Processing and Lemmatization
48. Rational Bubble Testing And Forecasting Bitcoin Price During Covid-19 Pandemic
49. Literature review on some novel Stenographic techniques which are based on the spatial as well as frequency domain concepts of watermarking
50. Project Resource Planning for application of NATM Technology in Pune-Metro
51. Resource Allocation For Routing Protocol Vehicular Communication In Wireless Networks
52. Neural Network Modelling for Shear Strength determination of soil
53. Optimal Angle Control Strategy for Switched Reluctance Motor Drive
54. Experimental Study On Partial Replacement Of Natural Sand By Copper Slag In Concrete
55. Malicious TCP/IP packets detection using anomalous TTL values with the help of SNORT
56. A Review on Recent Trends of Denial of Services (DoS) attack in Network Security
57. Soliton propagation and its Applications

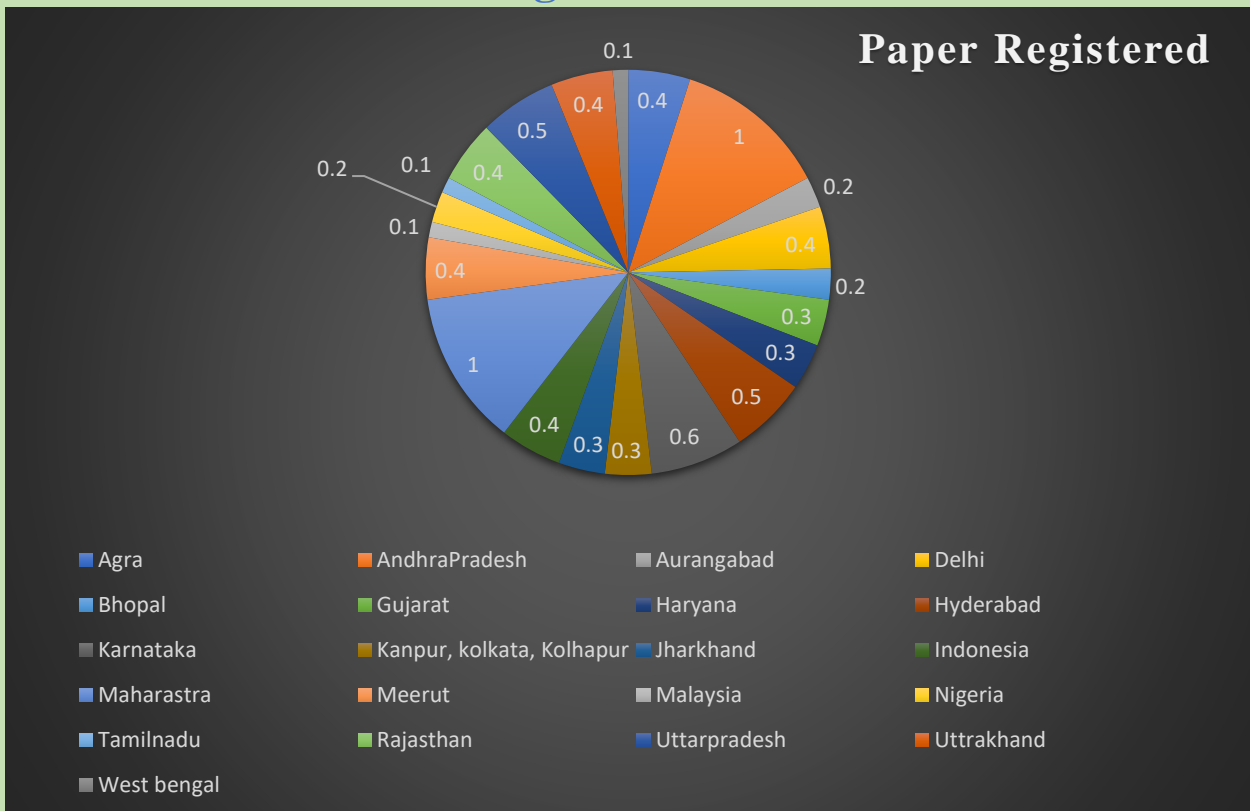
58. Future Skills Prime: An Initiative for Capacity Building and Skills Acquisition in the Age of Intelligent Technologies by Government and Indian Industry
59. An Application of Analytical Hierarchy Process- A Computational Approach to Financial Asset Selection
60. Neighborhood livability index development and residential land value incorporation
61. Smart Device and Internet of Things (IoT) Convergence technology trends
62. Design of a charging station for batteries in electric vehicles
63. A fake news detection model based on classification techniques
64. Cascaded Multilevel Inverter – Based 15 level Multilevel Inverter with Reduced number of Switches for PV Applications
65. Genomic data science and COVID -19 Genome Analysis using Bio python
66. Autonomous Car for Indian Terrain
67. Strength And Weakness Of Design And Build Scheme In The Procurement Of Government Projects
68. Construction Management Control in the Covid-19 Period
69. Selection of optimal Additive Manufacturing Technology for Polymer Composite
70. A Novel approach of True Random Number Generation using Tree based Interleaver
71. Prediction of Human Emotions by Neural Oscillations
72. Video-Based Person Re-Identification using Semi-Coupled Dictionary Learning with Relaxation Label Space Transformation
73. Multi-Sensor Data Fusion-based Parallel Manipulator with Iot monitoring employing Machine Learning
74. Pornographic Image Sensor Information System Based On Android Using Convolutional Neural Network Method
75. Predictive Maintenance Of Induction Motors Using Iot (cayenne)
76. Development of Sustainable Bio-bricks Using Agro-wastes
77. Prediction of Health of the Post Harvested Pomegranate Fruits Using Magnetic Resonance Imaging and Machine Learning
78. Design of Low Power and High Speed FinFET Based Multiplexers
79. Design and Performance Evaluation of FinFET Based Full Adder
80. AI based Reliable and secure data transfer in Wireless Networks
81. A Study Of Relationship of Demographic Factors With Customer Satisfaction of Electric Vehicles Usage In India Using Chi-Square Techniques
82. Selection Combining Diversity for Fisher Snedecor Composite Fading Model under Interference
83. Solar Cell Trends and the Future: A Review
84. Fabricating a Raman Spectrometer
85. GA-RSM Modelling and Optimization for Enhancement of Tensile Strength of Fibre Reinforced composites
86. An analysis of various machine learning techniques for predicting diabetes in its early stages
87. Property Registration Using Blockchain
88. A Study on Comparative Analysis of Two Stochastic Models for Single Unit footwear Machine
89. Designing Of Mimo Antenna Using Meta Surface For 5g Applications

90. Study the effect of Green Nanoparticles on Biomedical waste –biomedical moulding sand properties for casting applications
91. Plant Disease Detection Using Machine Learning
92. Hate Speech Detection Using Machine Learning
93. Parkinson's Disease Tremor Suppression using Gyroscopic Effect
94. Design & Analysis of Permanent Magnet Linear Generator using FEM Based Software
95. Lung Cancer Detection Using Machine Learning Technique
96. An Optimized Deep learning Method for Detecting Covid-19 using Ultrasound Images
97. Low Power Electronic Transformer Design for Medium Voltage Application
98. Estimation of Stray Losses near the Bushing Region of Transformer Tank
99. Design and Operation of 40kW Bidirectional Fast Charger and Wide Voltage Range of EV
100. Experimental and Numerical study on Socketed Pile in Soft Rock
101. Economic Analysis Of Inflation: The Regime Switching Approach
102. A SENS Score of Rheumatoid Arthritis Detection using Customized Convolutional Neural Network
103. An Analytical Study of Digital Healthcare: Issues and Challenges
104. A Fuzzy Based Optimization Approach and a Deep Learning Classifier for Parkinson's Disease Prediction
105. A Systematic Review on Machine Learning based IoT Applications in Healthcare
106. Real Time Indoor CO₂ Detection by Using Thin Film Nanocomposite
107. Design And Verification Of Amba Axi4 For High Performance And Soc Integration
108. Adaptive Rate Control for Wireless Communication System Using Deep Reinforcement Learning
109. Classification of attacks and Detection of attack using Learning models for IoT Mechanism
110. Machine Learning and Temporal Graph Networks for Protein Classification Based on Amino Acid Sequencing
111. IoT-Cloud Architecture for Smart City with LPWAN-5G Connectivity- A Study on Smart Meter Reading Data Acquisition
112. Ultra High Performance Concrete - Role of Admixture
113. Aac And Other Blocks In Masonry Construction
114. WLAN Microstrip Patch Antenna: A Review
115. Simulation Of WLAN Triple Band Microstrip Patch Antenna Using HFSS
116. Comparison of fluoride removal efficacy of D. sissoo based biomass and IRA400Cl ion exchange resin: Batch study for synthetic groundwater
117. Design of quad slotted patch antenna at 2.4GHz with DGS

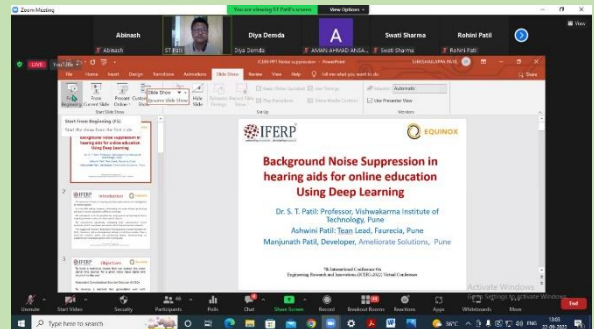
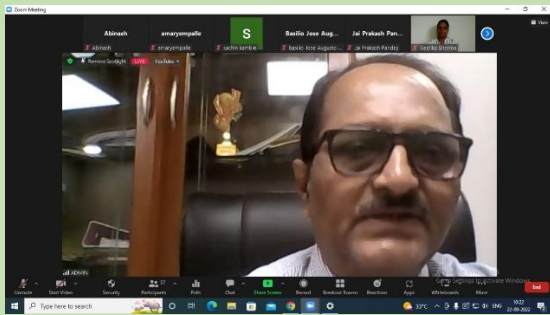
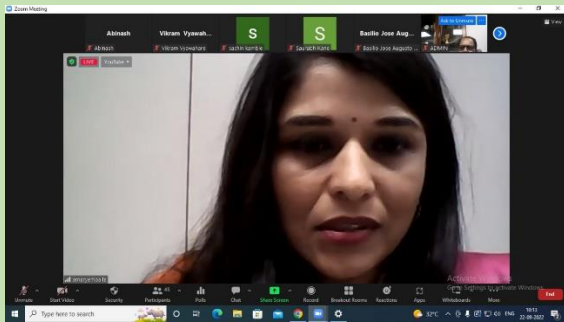
Total Abstracts Received Status State wise:



Total Abstracts Registered Status State wise:



Glimpses of the Conference:



General comments and Feedbacks:

- Well Organized Conference.
- More social networking time.
- An additional day to incorporate more time for discussion and dedicated time for poster sessions.
- Delegates contact list very useful & Speakers were not audible due to network issue
- Well organized but could have extend the presentation timings.
- Happy to be a Part of this International Conference & Great exposure
- Different types of paper skills & improved my knowledge
- Based on the Realtime example to store and data in reliable way.

END OF THE REPORT