

Dadi Institute of Engineering & Technology



Approved by AICTE & Permanently Affiliated to JNTUK
NAAC Accredited Institute & Inclusion under Section 2(f) & 12(B) of the UGC Act
NH-16, Anakapalle, Visakhapatnam-531002, Andhra Pradesh.

(IOTDA-2K21)

17-18 Dec, 2021

**Department of Computer Science & Engineering
and Electronics & Communication Engineering**

Proceedings of Two Day Online National Conference on Internet of Things : Design & Applications

Sponsored by



Chief Patron : Sri Dadi Ratnakar, Chairman

Patron : Dr. Challa Narasimham, Principal

Convenor : Dr. K. Sujatha, Professor, CSE

Conference Website Link

diet.edu.in/iotda2k21



Content

| Description | Pg. No. |
|--|----------------|
| Agriculture Applications of Internet of Things: A Survey Comparison of Clustering Algorithm S.Sindhu,L.Arockiam | 5 |
| Comparison of Clustering Algorithm RugadaVaikuntaRao,N.Sireesha, Mrs.J.Nalini | 6 |
| Structural Health Monitoring Using IoT B Satheesh, VelamuriManasa ,Y.Jaswanth, B. SaiLikitha, K. Sri Sahithi, K.Trivani | 7 |
| Sensor Based Frisking P Sireesha, Archana B T, , M. PratyushaJyothi, J. Tallababu, Ch. Harika, G. Madhavi | 8 |
| Automatic Smart Irrigation System Using IOT Technology Kishore Buddha, K.Poojitha, G.Pavan, Rahul Kumar, D.Devi , V.N SaiRohini Kumar, D. Jaswanth | 9 |
| Optimal Time Table Generation Using Genetic Algorithm N G S Raju, B.G.PoornimaHimaketan, M.Tejasri , K. Komali , T. SaiHarika, R. Lohit Kumar | 10 |
| Hydrogen Fuel Cell Based Energy Production for Domestic Appliances A Swetha'M.Hemanth Kumar, Suraj Nahak, Manda Sravan Kumar, Vara Prasad | 11 |
| Passive Target Tracking Using Sonar Measurements M S B Deepthi, KausarJahan, MallaMounika Naga Lakshmi, Piradula Suresh, Routhulapudi Lalitha Lakshmi S Praveenya, PentakotaSwarjan | 12 |
| IoT Based Home Thief Movement Detection and Alerting System Using GSM Technology Matta Sankara Sastry, Srinivasa Rao, N. Prudhivi, P. Jyothi, M. Srinivas, K. Bhagya Lakshmi | 13 |
| Wavelet Signal and Image Denoising R. V. S. Lakshmi Kumari , R. Suneel Kumar, B. Pavani, G. Tejasri, Ch. Latha, V.Moulika | 14 |

| | |
|--|----|
| Design and Implementation of Underground Cable Fault Detector review on control strategies in micro grid to smart | 15 |
| R.SrideviAravelli S L K Gopalamma, Kusul Kumar K, N. Srinivas, Sumanth Kumar, S. LaxmanRao | |
| No Death in India over Usage of EMS Application | 16 |
| SulochanaKengam,M RVSG Guptha, Mr. Raj PavanPolisetti | |
| Role of Smart Technique in Irrigation System | 17 |
| G Rajasekharam , K. Srinivasarao, S. Srinowshya, G. Manoharsri, B. Pydiraju, J. Yaswanth | |
| Study on Green Concrete for the Future | 18 |
| Y H PrasannaRaju,B. Sudheerkumar, N. Vamsikrishna, V. Venkatesh | |
| Dynamic Electric Vehicle Charging System | 19 |
| Ramesh Surisetty,CH Ravi Kumar, P Gnanendra Kumar, V Ganesh, P Teja, V Sai Kumar | |
| Switched Reluctance Motor for Hybrid Electric Vehicle using IoT Cloud | 20 |
| L.V.Rajesh Kumar, Alfoni Jose K, K.S.S.Jahnavi,K.NarayanaMurthy,M.Savan Kumar, M.S.D kiran | |
| Generating Electricity by Using Heating Panel | 21 |
| B. V. Suresh, K Vijay Kumar, B P S PrakashRao, B Siva Sai, D S Siva Kumar, B RakeshYadav | |
| Health Care System for Home Quarantine People Using Raspberry Pi, GSM and IOT Technology | 22 |
| GiridharBabu, Sheik Shabeena, Karri Jayasri, Lanka VenkataSaiTejaswini, AneLokesh, Kobbari Rajesh | |
| Covid-19 Fencing and Contact Traceability | 23 |
| M.G. Varaprasad A.S.N.Varma T.Divya,P.Yamini ,I.Sreelekhya, K.Teja | |
| Smart Power Factor Smart Power Factor Controller | 24 |
| G Jyothi, T. Ramesh babu, B.Lohidhar ,E.Mohan,CH. Sri harsha ,K .Vamsikrishna | |
| Autonomous Delivery Robot | 25 |
| B. Siva Prasad, K.S.N.VSomesheswararao,`K.Mytri,R.Indraja, K.Thriveni, D.Ajay Kumar | |
| Accident Detection and Alert System using Arduino | 26 |
| A Vasudeva Rao, P. Amrutha, V. Moulika,M.Manju, K.BhagyaDharani, B.Kedharsai | |

| | |
|---|----|
| A Comprehensive Approach to Develop Pavement Bricks from IoT(Iron Ore Tailings) and Solid Plastic Waste to Generate Green And Cyclic Economy Towards Waste To Wealth Mission | 27 |
| Rugada Vaikunta Rao | |
| Solar Powered BLDC Motor with HCC Fed Water Pumping System for Irrigation | 28 |
| J. Deleep Kumar, S. Sai Kumar | |
| A Review on Control Strategies in Micro grid to Smart | 29 |
| O. Lakshmi Bhavana, Aravelli S L K Gopalamma | |
| Capturing Human Categorization of Natural Images by Combining Deep Networks and Cognitive Model | 30 |
| VenkataKalyaniVangapandu, NamrathaPadiyar | |
| IOT Applications with Secured Light Weight Cryptography | 31 |
| Namratha Padiyar, Venkata KalyaniVangapandu | |
| Implementation of Cloud Technology in Education | 32 |
| V. Manasa, B.G. Poornima | |
| Elliptic Cryptography Curve for Secured Text Encryption | 33 |
| Likitha.K, M.Srinivasa Rao | |
| Study of Seismic Analysis of Multi Story Buildings With and Without Basement | 34 |
| Y Hemanth Kumar | |
| Renewable Energy Based Integrated Automated Full Body Sanitizing System | 35 |
| B. V. Veeranjanyulu | |
| An Approach for Reconstruction of Unavailable Data in Cloud Storage System Using Partially Distributed File System with Parity | 36 |
| Ramaraju. S V S V.P, Komali K | |
| Predicting the Hydrogen Storage Capacity of Lithium Doped MWCNTs Nano particles using Machine Learning Techniques | 37 |
| Madhavi Konni Soma Sekhar Kadiyala, Challa Narasimham | |

| | |
|---|----|
| Vehicle Accident Prevention and Detection System | 38 |
| Alfoni Jose K, B V Siva Prasad | |
| Appraisal of An Employee's Performance at Work With Reference To Coromandal International Ltd, Visakhapatnam | 39 |
| Dr. Rama Kumar P.B., Prof. Dr. Jaladi Ravi, Mr. P. Kiran Kumar | |
| Detection of cancer cells using Image processing | 40 |
| P.PoornaPriya,S. Harshita ,M. Soujanya,V. Bindu , P. Jhansi | |
| A Study on Employees Satisfaction on Welfare & Safety Measures adopted in Power Sector Companies | 41 |
| Y. Babji,P.B.RamKumar,A.Kiran Kumar | |
| Pattern Synthesis using Fourier Transform Method | 42 |
| J Babu, AdariBhargavi,MandapatiPavitra, KoiladaChanakya, Buddha Bhanusree | |
| Comparative Study on Text Pre-Processing Techniques | 43 |
| SampathiraoSuneetha, Prasanna Kumar Lakineni | |
| PAPR Reduction Using Hybrid Ps-Gw Optimization | 44 |
| P.Amrutha, Shiva Kumari | |
| Design of A Compact Mimo Antenna For Fifth Generation Applications | 45 |
| Dr. P. PoornaPriya, B. Sirisha, D. Gowri, S. Mounavi, B. Sravani | |
| Measuring Platelet Count by Using contour Aware Segmentation | 46 |
| K Vani,R.Suneelkumar ,R.Latha, P.SriRamya, K.Yamini , A.Ramjagan | |
| An automatic toll ticketing system using image processing | 47 |
| K Vijaya Pasamsa, M.Kishore kumar,Y. Durga lakshmi, B.Maraju, P.harish, S.Tejasri | |

DYNAMIC ELECTRIC VEHICLE CHARGING SYSTEM

Ramesh Surisetty¹CH Ravi Kumar², P Gnanendra Kumar³, V Ganesh³, P Teja³, V Sai Kumar³

¹Assistant Professor Coastal Institute of Technology, and Management

²Faculty, Dadi Institute of Engineering &Technology, Anakapalle

³Student, Dadi Institute of Engineering &Technology, Anakapalle
ravikumar@diet.edu.in, kumargnanendra035@gmail.com

Abstract: Now a day's world is shifting towards electrified mobility to reduce the pollutant emissions caused by non-renewable fossil fueled vehicles and to provide the alternative to pricey fuel for transportation. But for electric vehicle, traveling range and charging process are the two major issues affecting its adoption over conventional vehicles. For charging process we have to wait for long time at charging stations. To avoid this waiting we have created a prototype of wireless charging system in which we can charge our vehicle by driving the vehicle on the road. For this the components are using Node MCU, IR module, Arduino coding, etc. In order to allow information exchange and to help user mobility, we have also created a mobile application to assist the EV driver on these processes.

Keywords: Dynamic charging, Arduino , Node MCU , IR Module