



JEPPIAAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

Self-Belief | Self Discipline | Self Respect

Kunnam, Sunguvarchaturam, Sriperumbudur-631604



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CONFERENCE PUBLICATIONS

Academic Year: 2024- 2025

| S.No | Faculty Name | Title of the Paper | Conference Details | Organized by | Conference year | National /International |
|------|---------------|--|--|--------------|--------------------|-------------------------|
| 1. | Dr,T.Sripriya | Innovative Antenna Creations for Enhancing Accessibility and Telecommunication Effectiveness: Expanding Cellular Infrastructure Implementation | 12th International Conference on Internet of Everything, Microwave, Embedded, Communication and Networks (IEMECON) | IEEE | 24-26 October 2024 | International |
| 2 | Dr,T.Sripriya | AI machine learning, Transformer models for Enhanced natural language processing | 12th International Conference on Internet of Everything, Microwave, Embedded, Communication and Networks (IEMECON) | IEEE | 24-26 October 2024 | International |
| 3 | Dr,T.Sripriya | Monitoring vital parameters of comatose patients using smart sensors integrated with cloud storage | 12th International Conference on Internet of Everything, Microwave, Embedded, Communication and Networks (IEMECON) | IEEE | 24-26 October 2024 | International |
| 4 | Dr,T.Sripriya | Development of security enhanced wireless communication medium to perform successful data transmission over 5g enabled networks | 1 st international conference on cognitive green and ubiquitous computing | IEEE | 01-02 march 2024 | International |

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|----|---------------|---|--|---|---------------------|---------------|
| 5 | Dr,T.Sripriya | Artificial intelligence driven beamforming : integrating intelligent antenna arrays to improve the performance of 5G networks | International conference on cybernation and computation | IEEE | 15-16 November 2024 | International |
| 6 | Dr,T.Sripriya | Schemes paaru!A multi platform chat bot for government scheme information in India | ICSTSDG | IEEE | 6-8 November 2024 | International |
| 7 | Dr,T.Sripriya | Finger print biometric door lock security system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 8 | Dr,T.Sripriya | Smart charge monitoring system for mobile | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 9 | Dr,T.Sripriya | Heart rate monitoring system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 10 | Dr,T.Sripriya | Car speed checker with LED display | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 11 | Dr,T.Sripriya | Power supply with auto switching | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 12 | Dr,T.Sripriya | Development of an efficient energy storage system | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |
| 13 | Dr,T.Sripriya | Non electrical sun tracking device | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |
| 14 | Dr,T.Sripriya | Scheduling system with integrated hacking alert APP | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |

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|----|---------------|---|--|--|------------|---------------|
| 15 | Dr.T.Sripriya | Design of circular patch antenna with 0,4 TH 2 bandwidth on 6G Application | Recent Innovation and Developments in Engineering and Technology -24 | Bharath institute of higher education and research | 2024 | International |
| 16 | Dr.T.Sripriya | Mitigation of common mode voltage by 5 level using novel T type inverter | Recent Innovation and Developments in Engineering and Technology -24 | Bharath institute of higher education and research | 2024 | International |
| 17 | Dr.T.Sripriya | Development of AI driven biomedical sensors and devices optimization health monitoring | De-gruyter | Book chapter | 2024 | Published |
| 18 | Dr.W.Nancy | Laboratory vacant occupied system using IOT | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |
| 19 | Dr.W.Nancy | Smart water serving Robot | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |
| 20 | Dr.W.Nancy | Laser security door luck system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 21 | Dr.W.Nancy | DIY wireless notice word | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 22 | Dr.W.Nancy | IR sensor based monitoring system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 23 | Dr.W.Nancy | Dynamically rotating solar energy optimization system with autonomous sun tracing mechanism | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 24 | Dr.W.Nancy | Real time automated CPR devices with adaptive algorithm for personalized arrhythmia detection | Conference on Artificial Intelligence advancements on Exploring Resources for Drug Development | Karpaga Vinayaga College of Engineering and Technology | Nov 2024 | International |

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|----|--------------|--|---|--|------|---------------|
| 25 | Dr.W.Nancy | Mitigation of common mode voltage by 5 level using novel T type inverter | Recent Innovation and Developments in Engineering and Technology -24 | Bharath institute of higher education and research | 2024 | International |
| 26 | Dr.W.Nancy | Bluetooth speaker control via gesture and face recognition | Recent Innovation and Developments in Engineering and Technology -24 | Bharath institute of higher education and research | 2024 | International |
| 27 | Dr.W.Nancy | Introduction to digital twins and security challenges | De-gruyter | Book chapter | 2024 | Published |
| 28 | Dr.W.Nancy | Robust learning principle design to detect diabetic retinopathy disease in early stages with skilled feature extraction policy | Taylor &Francis group | Book chapter | 2024 | Published |
| 29 | Dr.W.Nancy | Neural network ensembles combined with statistical models for enhanced encryption algorithm | Rademics | Book chapter | 2024 | Published |
| 30 | Dr.M.Benisha | An optimized sensors associated forest fire prediction and reporting system based on IOT | International conference on innovative computing ,intelligent communication &smart electrical systems | IEEE | 2024 | International |
| 31 | Dr.M.Benisha | A convoluted learning and classification methodology to predict wheat crop diseases detection using AI logic | International conference on innovative computing ,intelligent communication &smart electrical systems | IEEE | 2024 | International |
| 32 | Dr.M.Benisha | Smart energy meter with power consumption display | Recent Innovation and Developments in Engineering and Technology -24 | Bharath institute of higher education and research | 2024 | International |
| 33 | Dr.M.Benisha | Development Air quality monitoring system for allergic rhinitis | Recent Innovation and Developments in Engineering and Technology -24 | Bharath institute of higher education and research | 2024 | International |
| 34 | Dr.M.Benisha | Synergistic impacts of green ammonia and biodiesel blends on diesel engine efficiency and sustainability | 3 rd international conference on ICSTEM -2025 | RRASE Engineering &mathematics | 2025 | International |

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|----|--------------|---|---|--|------------|---------------|
| 35 | Dr.M.Benisha | Real time air quality monitoring system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 36 | Dr.M.Benisha | Smart energy meter with power consumption display | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 37 | Dr.M.Benisha | Smart water level detection and quality monitoring system for sustainable resource management | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 38 | Dr.M.Benisha | Counting circuit system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 39 | Dr.M.Benisha | Design and implementation of an Arduino based clinostat for microgravity plant growth | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 40 | Dr.M.Benisha | Design and implementation of an Arduino based clinostat for microgravity plant growth | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |
| 41 | Dr.M.Benisha | Design and development of a short circuit indicator system for enhanced electrical safety | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |
| 42 | Dr.M.Benisha | Design and implementation of sound sensor based home automation system | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |
| 43 | Dr.M.Benisha | Enhancing gastrointestinal disease detection thorough resent and comparative analysis of deep learning architectures for medical image classification | 13 th International conference on contemporary engineering and technology 2025 | Prince shri venkateshwara padmavathy engineering college | March 2025 | International |

| 44 | Dr.M.Benisha | 4G/5G Communication networks | Technical publications | Book chapter | 2024 | Published |
|----|---------------|--|---|--|------------|---------------|
| 45 | Ms.J.Karthika | Mitigation of common mode voltage by 5 level using novel T type inverter | Recent Innovation and Developments in Engineering and Technology -24 | Bharath institute of higher education and research | 2024 | International |
| 46 | Ms.J.Karthika | Sustainable utilization of 100% of ash from coal based thermal power plant | Recent Innovation and Developments in Engineering and Technology -24 | Bharath institute of higher education and research | 2024 | International |
| 47 | Ms.J.Karthika | A patient illness prediction system based on wearable devices for precise health status monitoring and early intervention Notification | 4 th International conference on Advance in computing ,Communication and Applied Informatics | IEEE | July 2025 | International |
| 48 | Ms.J.Karthika | Mobile control door lock system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 49 | Ms.J.Karthika | Light dependent resistor burglar alaram | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 50 | Ms.J.Karthika | PWM based motor controller | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 51 | Ms.J.Karthika | Emerging technologies and Application in wireless power transmission system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 52 | Ms.J.Karthika | Health monitoring system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 53 | Ms.J.Karthika | DC motor pace regulation using ANDROID | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |

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|----|---------------|---|--|--|------------|---------------|
| 54 | Ms.J.Karthika | Smart Fan control system using ARDUINO and Environmental sensors | Conference on Artificial Intelligence advancements on Exploring Resources for Drug Development | Karpaga Vinayaga College of Engineering and Technology | Nov 2024 | International |
| 55 | Ms.J.Karthika | Emerging technologies and Application in wireless power transmission system | Conference on Artificial Intelligence advancements on Exploring Resources for Drug Development | Karpaga Vinayaga College of Engineering and Technology | Nov 2024 | International |
| 56 | Ms.J.Karthika | Efficient wireless charging systems for portable electronics | Conference on Artificial Intelligence advancements on Exploring Resources for Drug Development | Karpaga Vinayaga College of Engineering and Technology | Nov 2024 | International |
| 57 | Ms.J.Karthika | Real time heart beat monitoring system for early heart attack detection | Conference on Artificial Intelligence advancements on Exploring Resources for Drug Development | Karpaga Vinayaga College of Engineering and Technology | Nov 2024 | International |
| 58 | Ms.J.Karthika | Analysis for solar energy infrastructure | International conference on Advanced in VLSI communication and navigation system | Saranathan college of engineering | April 2024 | International |
| 59 | .Mrs.M.Nithya | Electrification of railway system using converters and DC Grid based on renewable sources | Recent Innovation and Developments in Engineering and Technology -24 | Bharath institute of higher education and research | 2024 | International |
| 60 | .Mrs.M.Nithya | Smart light system using advanced sensor technology and modern IOT | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |
| 61 | .Mrs.M.Nithya | Vehicle speed detector | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |
| 62 | .Mrs.M.Nithya | Water overflow alarm project | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 63 | .Mrs.M.Nithya | Wireless AC detector | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |

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|----|-------------------|--|--|--|------------|---------------|
| 64 | .Mrs.M.Nithya | Smart traffic light control system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 65 | .Mrs.M.Nithya | Mobile phone detector | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 66 | .Mrs.M.Nithya | DC motor speed controller | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 67 | .Mrs.M.Nithya | Mitigation of common mode voltage by 5 level using novel T type inverter | Recent Innovation and Developments in Engineering and Technology -24 | Bharath institute of higher education and research | 2024 | International |
| 68 | .Mrs.M.Nithya | A single MIMO antenna for the 25/30 GHZ mm wave based for 5G wireless | Recent Innovation and Developments in Engineering and Technology -24 | Bharath institute of higher education and research | 2024 | International |
| 69 | Ms.M.Bharathi | Ultrasonic distance measurement | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 70 | Ms.M.Bharathi | Water level control system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 71 | Ms.M.Bharathi | Automatic street light | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 72 | Mrs.L.Hubert mary | Smart cities powered by steps | International conference on Advanced in VLSI communication and navigation system | Saranathan college of engineering | April 2024 | International |
| 73 | Mrs.L.Hubert mary | Blind spot detection for vehicles | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |

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|----|-------------------|---|--|--|------------|---------------|
| 74 | Mrs.L.Hubert mary | Speed breaks power generators | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 75 | Mrs.L.Hubert mary | Touchless doorbell system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 76 | Mrs.L.Hubert mary | Laser light alarm system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 77 | Mrs.L.Hubert mary | Solar vacuum cleaner and floor cleaner | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 78 | Mrs.L.Hubert mary | Clap on and clap off switch circuit | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 79 | Mrs.L.Hubert mary | Automatic street light by adjusting brightness using LDR | Conference on Artificial Intelligence advancements on Exploring Resources for Drug Development | Karpaga Vinayaga College of Engineering and Technology | Nov 2024 | International |
| 80 | Mrs.L.Hubert mary | Current produced by speed breaker | Conference on Artificial Intelligence advancements on Exploring Resources for Drug Development | Karpaga Vinayaga College of Engineering and Technology | Nov 2024 | International |
| 81 | Mrs.L.Hubert mary | Smart door lock with mobile | Conference on Artificial Intelligence advancements on Exploring Resources for Drug Development | Karpaga Vinayaga College of Engineering and Technology | Nov 2024 | International |
| 82 | Mrs.L.Hubert mary | The logical development of IOT based elderly and disabled peoples monitoring system using smart sensors | 2 nd International conference on emerging trends in engineering and medical | IEEE | 2024 | International |

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|----|-------------------|--|--|---|------------|---------------|
| 83 | Mrs.L.Hubert mary | An improved hybrid deep learning strategy to predict digital forgery using AI principle | 2 nd International conference on emerging trends in engineering and medical | IEEE | 2024 | International |
| 84 | Mrs.L.Hubert mary | An intensive model for wheat crop disease prediction based on hybrid deep learning principle with image processing support | 2 nd International conference on emerging trends in engineering and medical science | IEEE | 2024 | International |
| 85 | Mrs.L.Hubert mary | Hybrid supervised and unsupervised learning models for identifying network anomalies | Rademics | Book chapter | 2024 | Published |
| 86 | Mrs.M.Indumathi | Ultrasonic object detector | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 87 | Mrs.M.Indumathi | E-bicycle locking system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 88 | Mrs.M.Indumathi | Timed pet feeder using Arduino | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 89 | Mrs.M.Indumathi | Motion detection light system | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 90 | Mrs.M.Indumathi | Continuity tester | International conference on emerging trends in Engineering technology and management | Takshashila University | March 2025 | International |
| 91 | Mrs.M.Indumathi | Wireless IOT temperature monitoring and visualisation system for hospitals and laboratories | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |

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|----|-----------------|--|--|---|------------|---------------|
| 92 | Mrs.M.Indumathi | Program to sensor data to smart phone using Bluetooth | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |
| 93 | Mrs.M.Indumathi | Roof cleaning machine using IOT | International conference on Mechanical and information & communication | Siddhartha Institute of Technology & Sciences | Nov 2024 | International |
| 94 | Mrs.M.Indumathi | Analysis for solar energy infrastructure | International conference on Advanced in VLSI communication and navigation system | Saranathan college of engineering | April 2024 | International |
| 95 | Mrs.M.Indumathi | Enhancing dual fuel diesel engine performance and emission using nano particle enriched bio ethanol waste cooking oil biodiesel blends | 3 rd international conference on ICSTEM -2025 | RRASE Engineering &mathematics | 2025 | International |
| 96 | Mrs.M.Indumathi | 3D model of semiconductor in VR | International conference on Advanced in VLSI communication and navigation system | Saranathan college of engineering | April 2024 | International |