

**DVV Clarification Report**

3.3.3 Number of books and chapters in edited volumes/books published and papers published in national/international conference proceedings per teacher during last five years

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| | b) 2019-20 | 72-91 |
| | c) 2018-19 | 92-112 |
| | d) 2016-17 | 113-122 |
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| 4 | Details of book published | 127-160 |



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Criterion: 3.3.3

Academic Year: 2016-2020

3.3.3. Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

| Sl No | Name of the teacher | Department/Division | Title of the paper | Title of the book/chapters published | Title of the proceedings of the conference | Name of the publication | Year of the publication | National / international | ISSN/ ISBN | Relevant link |
|----------------|---------------------|---------------------|---|--|---|-------------------------|-------------------------|--------------------------|-------------------------|--|
| 2020-21 | | | | | | | | | | |
| 1 | Dr.R.Balakrishna | CSE | - | Python Programming and Its Applications | - | River Publications | 2021 | International | Bo9KT7R3M9 | https://www.amazon.in/dp/BO9KT7R3M9 |
| 2 | Dr.S.Usha | CSE | - | Applied Algorithms for Intelligent IoT | - | Auerbach Publications | 2021 | International | 978-1003-11-9838 | https://doi.org/10.1201/9781003119838 |
| 3 | Dr.S.Usha | CSE | Real Time Path Planning using Intelligent Transportation System for Hybrid VANET | - | 2020 International Conference on Power, Energy, Control and Transmission Systems | IEEE | 2021 | International | 978-1-7281-1084-4 | Real Time Path Planning using Intelligent Transportation System for Hybrid VANET IEEE Conference Publication IEEE Xplore |
| 4 | Prof. Srinivasa R | CSE | Recent Trends in Computer Science and Information Technology (ICRCSIT) - 20 | Facial Recognition Voting System | Online International Conference on Recent Trends in Computer Science & Information Technology | ICRCSIT | 2020 | International | ISBN :978-93-80831-66-4 | https://www.smec.ac.in/assets/images/Proceedings%20of%20ICRCSIT.pdf |
| 5 | Prof. Sreepathi V | ECE | An automated glaucoma detection model to estimate glaucoma abnormalities in fundus images using CNN | Technical Advancements of Machine Learning in Healthcare | - | Springer publication | 2021 | International | ISBN: 978-981-33-4698-7 | https://link.springer.com/chapter/10.1007/978-981-33-4698-7_12 |

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| | | | | | | | | | | |
|----|--------------------------|------------|--|---|-----------------------|---------------------|------|---------------|--------------------|---|
| 6 | Dr.Sumitha Manoj | ECE | Haze Removal using Image Processing | - | - | LAMBERT PUBLICATION | 2021 | International | 13:978-620-3-84022 | https://www.morebooks.de/store/gb/book/haze-removal-system-using-image-processing/isbn/978-620-3-84022-3 |
| 7 | Dr.Sumitha Manoj | ECE | Prediction and Exposure of Cancer Cells Through Walsh Hadamard Transform and MATLAB R2017A Techniques. | - | Materials today | Elsevier | 2021 | International | ISSN: 2214-7853 | https://www.sciencedirect.com/science/article/pii/S2214785320341912 |
| 8 | Dr. M Karthikeyan | Mechanical | A view of Artificial Neural Network Models in Different Application Areas | - | E3S Web of Conference | Eco Sciences | 2021 | International | 2267-1242 | https://www.e3s-conferences.org/articles/e3sconf/abs/2021/63/e3sconf_icpeam2020_03001/e3sconf_icpeam2020_03001.html |
| 9 | Dr. N Sreenivasalu Reddy | Mechanical | Analysis of tube-in-tube copper helical heat exchanger to improve heat transfer | - | Materialstoday | Elsevier | 2021 | International | ISSN: 2214-7853 | https://www.sciencedirect.com/science/article/pii/S2214785320386442?via%3Dihub |
| 10 | Dr. K C Vishwanath | Mechanical | Analysis of tube-in-tube copper helical heat exchanger to improve heat transfer | - | Materials today | Elsevier | 2021 | International | ISSN: 2214-7853 | https://www.sciencedirect.com/science/article/pii/S2214785320386442?via%3Dihub |
| 11 | Dr. M Karthikeyan | Mechanical | Analysis of tube-in-tube copper helical heat exchanger to improve heat transfer | - | Materials today | Elsevier | 2021 | International | ISSN: 2214-7853 | https://www.sciencedirect.com/science/article/pii/S2214785320386442?via%3Dihub |

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|----|--------------------------|-------------|--|---|---|------------|------|---------------|-------------------------|---|
| 12 | Prof. Pushpa M J | ECE | Security Operations Using Wireless Secured Communication and Tracking Device | - | Recent Trends in Computer Science and Information Technology | ICRCSIT | 2020 | International | ISBN: 978-83-80831-66-4 | https://www.smec.ac.in/assets/images/Proceedings%20of%20ICRCSIT.pdf |
| 13 | Dr. Vishwanath K.C | Mechanica I | Transient Heat Transfer Analysis Of Dimpled Rod | - | International Conference on Frontiers in Engineering Science and Technology | IOPScience | 2021 | International | Online ISSN: 1757-899X | https://iopscience.iop.org/article/10.1088/1757-899X/1065/1/012034 |
| 14 | Dr. Sreenivasulu Reddy | Mechanica I | Transient Heat Transfer Analysis Of Dimpled Rod | - | International Conference on Frontiers in Engineering Science and Technology | IOPScience | 2021 | International | Online ISSN: 1757-899X | https://iopscience.iop.org/article/10.1088/1757-899X/1065/1/012034 |
| 15 | Dr. Vishwanath K.C | Mechanica I | Heat Transfer Analysis of Spiral Heat Exchanger Cooled using Nanofluids | - | International Conference on Trends in Mechanical Engineering Sciences | IOPScience | 2021 | International | Online ISSN: 1757-899X | https://iopscience.iop.org/issue/1757-899X/1189/1 |
| 16 | Dr. Vishwanath K.C | Mechanica I | Experimental Investigation of Forced Convection Heat Transfer from Vertical Grooved Plates | - | International Conference on Trends in Mechanical Engineering Sciences | IOPScience | 2021 | International | Online ISSN: 1757-899X | https://iopscience.iop.org/issue/1757-899X/1189/1 |
| 17 | Dr. N.Sreenivasulu Reddy | Mechanica I | Experimental Investigation of Forced Convection Heat Transfer from Vertical Grooved Plates | - | International Conference on Trends in Mechanical Engineering Sciences | IOPScience | 2021 | International | Online ISSN: 1757-899X | https://iopscience.iop.org/issue/1757-899X/1189/1 |

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|----|------------------------|-------------|--|---|---|-----------------------------|------|---------------|-------------------------|---|
| 18 | Dr. Vishwanath K.C | Mechanica I | Characterization of Ballistic and Wear Resistance of Friction Stir Welded AA6061 Aluminium Alloy | - | International Conference on Advances In Materials Research | AIP Conference | 2020 | International | ISBN: 978-0-7354-4004-3 | https://aip.scitation.org/doi/abs/10.1063/5.0022418 |
| 19 | Dr. Vishwanath K.C | Mechanica I | Effect of copper oxide nano fluids as coolant on thermal performance of spiral heat exchanger | - | International Conference on Trends in Mechanical Engineering Sciences | IOPScience | 2021 | International | Online ISSN: 1757-899X | https://iopscience.iop.org/article/10.1088/1757-899X/1189/1/012037/meta |
| 20 | Dr. Sreenivasalu Reddy | Mechanica I | Characterization of Ballistic and Wear Resistance of Friction Stir Welded AA6061 Aluminium Alloy | - | AIP Conference | AIP Conference | 2020 | International | ISBN: 978-0-7354-4004-3 | https://aip.scitation.org/doi/abs/10.1063/5.0022418 |
| 21 | Dr. Jobish Johns | Physics | Chapter on Carbon Nanotubes Reinforced Natural Rubber Composites | Book Title: Carbon Nanotubes- Redefining the World of Electronics | - | IntechOpen Publishers | 2021 | International | ISBN: 978-1-83881-185-3 | https://www.intechopen.com/books/9913 |
| 22 | Dr. Jobish Johns | Physics | - | Chitosan Based Elastomeric Blends: Dielectric and Dye Adsorption Properties | - | Lambert Academic Publishers | 2020 | International | ISBN: 978-620-0-55641-5 | https://www.lap-publishing.com/catalog/details/store/gb/book/978-620-2-55641-5/chitosan-based-elastomeric-blends |
| 23 | Dr. K.S Krishna Kumar | Physics | - | Heavy Ion Irradiation Effects on Semiconductor Devices | - | Lambert Academic Publishers | 2020 | International | ISBN: 978-620-2-55600-2 | https://www.lap-publishing.com/catalog/details/store/gb/book/978-620-2-55600-2/heavy-ion-irradiation-effects-on-semiconductor-devices |

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|----|--------------------|-----------|--|---|--|-----------------------------|------|---------------|-----------------------------|---|
| 24 | Dr. Anitha BS | Maths | - | A Study on Invariant Submanifolds of Contact Manifolds-II | - | Lambert Academic Publishers | 2020 | International | ISBN: 978-620-2-55269-1 | https://www.lap-publishing.com/catalogue/details/gb/978-620-2-55269-1/a-study-on-invariant-submanifolds-of-contact-manifolds-ii |
| 25 | Dr. Pruthviraj RD | Chemistry | - | Hybrid composite material for building construction | - | Lambert Academic Publishers | 2021 | International | ISBN: 978-620-3-87006-0 | https://www.lap-publishing.com/catalogue/details/store/gb/book/978-620-3-87006-0/hybrid-composite-materials-for-building-construction |
| 26 | Dr. Pruthviraj RD | Chemistry | - | Nanotechnology- Past Present and Future | - | Lambert Academic Publishers | 2021 | International | ISBN: 978 6 2 0 3 8 6 9 3 7 | |
| 27 | Dr. Sudhakara A | Chemistry | - | A Novel Approach Towards Synthesis of Indole | - | Lambert Academic Publishers | 2020 | International | ISBN: 978-613-9-85770-8 | https://www.morebooks.de/store/gb/book/a-novel-approach-towards-synthesis-of-indole/isbn/978-613-9-85770-8 |
| 28 | Dr. A S Hariprasad | Maths | Application of Splines for approximation | - | International conference on Recent Challenges in Engineering Science and Technology (ICRCEST 2K21) | | 2021 | International | 978-93-90214-20-4 | https://cdn.iferp.in/2021/ICRCEST-2021.pdf |
| 29 | Dr. D. Sobyra | ECE | Prediction and Exposure of Cancer Cells Through Walsh Hadamard Transform and MATLAB R2017A Techniques. | - | Materials today | Elsevier | 2021 | International | ISSN: 2214-7853 | https://www.sciencedirect.com/science/article/pii/S2214785320341912 |

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2019-20

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|---|-----------------|-----|--|--|---|--|------|---------------|-----------------|---|
| 1 | Dr.S.Usha | CSE | Convolutional Neural Network based Auto-Assisting System for Purblind People | TEST Engineering and Management Magazine | - | The Mattingley publishing Co.,Inc., Eve Mattingley-Hannigan Editor and publisher | 2020 | International | 0193-4120 | = |
| 2 | Dr. D.Sivakumar | CSE | Convolutional Neural Network based Auto-Assisting System for Purblind People | TEST Engineering and Management Magazine | - | The Mattingley publishing Co.,Inc., Eve Mattingley-Hannigan Editor and publisher | 2020 | International | 0193-4120 | = |
| 3 | Dr. K.Janaki | CSE | Convolutional Neural Network based Auto-Assisting System for Purblind People | TEST Engineering and Management Magazine | - | The Mattingley publishing Co.,Inc., Eve Mattingley-Hannigan Editor and publisher | 2020 | International | 0193-4120 | - |
| 4 | Dr. T.Kamalraj | CSE | Convolutional Neural Network based Auto-Assisting System for Purblind People | TEST Engineering and Management Magazine | - | The Mattingley publishing Co.,Inc., Eve Mattingley-Hannigan Editor and publisher | 2020 | International | 0193-4120 | = |
| 5 | Dr.S.Usha | CSE | Impact of cloud security in digital twin | Advances in Computers | - | Elsevier Advances in Computers | 2020 | International | ISSN: 0065-2458 | https://www.sciencedirect.com/science/article/abs/pii/S0065245819300488 |

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|----|-----------------|-----|---|---|--|--|------|---------------|--------------------------|---|
| 6 | Dr. S. Usha | CSE | Wireless Semi-Automatic Delivery Robot Using IoT and Machine Learning | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://sersc.org/journals/index.php/IJAST/article/view/23905 |
| 7 | Dr. S. Usha | CSE | Sign Language Recognition Using Hand Gestures & Deep Learning | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1uB8RXM3r08RA76jvKqMDR7c8zDmb1lbf/view |
| 8 | Dr.S.Usha | CSE | Data Analysis And Detection Of Contradiction In Biomedical Literature | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1PBRBNKMe9Ef4aqRh8N-TSab3FyuuIq0c/view |
| 9 | Dr. Sivakumar D | CSE | Identification and Classification of Infected Plant Leaves by TensorFlow and Keras using Convolution Neural Network | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-15963702461593-1600.pdf - Google Drive |
| 10 | Dr. Rajesh K.S | CSE | Smart and Green Fire Detection System with Image Processing | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-15963703221601-1612.pdf - Google Drive |
| 11 | Dr. Sivakumar D | CSE | Efficient Eye Blink Communication Assistance for Paralyzed Patients | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-15963704271613-1622.pdf - Google Drive |

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|----|---------------------|-----|--|---|--|-----------------------------|------|---------------|--------------------------|---|
| 12 | Prof. T Auntin Jose | CSE | Machine Learning Based Driver Drowsiness and Monitoring System | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1596370544 1623-1633.pdf - Google Drive |
| 13 | Prof. Neha Singhal | ISE | Multifunctionality Robot Navigation with Improved Performances | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1bt0iV Vbqq43BYkhtTB3wM050uzLmwnhr/view |
| 14 | Prof. Vanda na B | CSE | Soil Stratification Using Machine Learning Strategies and Crop Suggestion Based on Soil Taxonomy | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1594035777 1212-1218.pdf - Google Drive |
| 15 | Prof. Neha Singhal | ISE | Virtual Eye, An Intelligent Assistant for Visually impaired using Artificial Intelligence | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN: 2207-6360 (Online) | http://serisc.org/journals/index.php/IJA ST/article/view/23930 |
| 16 | Prof. Shashidhar V | CSE | A Novel Approach To BITCOIN Price Prediction Using MI Techniques | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://www.bibliomed.org/mnsfulltext/197/197-1596370915.pdf?1640945847 |
| 17 | Prof. Shashidhar V | CSE | An Approach for Prediction of Diseases to suggest Doctors and Hospitals to Patientbased on recommendation system | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://www.bibliomed.org/mnsfulltext/197/197-1596371022.pdf?1640945921 |

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|----|---------------------------|-----|---|---|--|--|------|---------------|--------------------------|--|
| 18 | Dr. Janaki K | CSE | Automatic Tracking of Traffic Violations Using Machine Learning | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN: 2207-6360 (Online) | http://serisc.org/journals/index.php/IJA-ST/article/view/23936 |
| 19 | Prof. Mahantesh Mathapati | CSE | Brain Tumor Segmentation in MRI Images Automatically | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1596371449 1665-1674.pdf - Google Drive |
| 20 | Prof. Saravana Perumal VM | CSE | Armamentation of the Crops Using Astute Sensor Techniques and Fuzzy Coherence | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1596371636 1675-1683.pdf - Google Drive |
| 21 | Dr. Kamalraj T | CSE | Rumour Prophecy on Social Network Using Machine Learning | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://serisc.org/journals/index.php/IJA-ST/article/view/23938 |
| 22 | Dr. S.Vijayana nd | CSE | Detection of Skin Lesion Using Convolutional Neural Network | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1596373054 1684-1692.pdf - Google Drive |
| 23 | Prof. J.Rajaleksh mi | CSE | Fashion Apparel Detection by means of Deep Learning Techniques | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | www.jcreview.com/admin/Uploads/Files/61b84fc6676844.51043531.pdf |
| 24 | Dr. Sivakumar D | CSE | Enhancing the Quality of Degraded Images Using Super Resolution | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://serisc.org/journals/index.php/IJA-ST/article/view/23943 |

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|----|---------------------------|-----|--|---|--|--|------|---------------|--------------------------|---|
| 25 | Prof. Priyanka Padki | CSE | CNN Algorithm An Efficient Implementation of Blck-Chain-Based Management of Video Surveillance System | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://www.bibliomed.org/mnsfulltext/197/197-1596373158.pdf?1640946343 |
| 26 | Dr. S Jayabalan | CSE | Prediction of Diabetic Retinopathy using SVM Algorithm | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1596373264 1702-1711.pdf - Google Drive |
| 27 | Dr. Rajesh K.S | CSE | Reducing the Patient Waiting Time in Queuing Management using Prediction Algorithm | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1594035842 1219-1226.pdf - Google Drive |
| 28 | Prof. Ramkumar P | CSE | Prediction Of Cardiovascular Disease Using Hybrid Machine Learning Algorithms | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1596373334 1712-1720.pdf - Google Drive |
| 29 | Prof.Vandana B | CSE | Pesticide Recommendation to Increase Production in Agriculture Using Machine Learning and IOT | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://sersc.org/journals/index.php/IJAST/article/view/23947 |
| 30 | Prof. Saravana Perumal VM | CSE | Animal Detection and Counting using single shot multibox detector | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://sersc.org/journals/index.php/IJAST/article/view/23948 |

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|----|----------------------------|-----|---|---|--|--|------|---------------|--------------------------|---|
| 31 | Prof. Devi T | CSE | Air Quality Monitoring Using Sensing Devices in Urban City | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1596373473 1721-1729.pdf - Google Drive |
| 32 | Prof. Manjunath Varchagall | CSE | Classified CNN In Computed Tomography Scans Based Liver Lesions Sectionalization | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://serisc.org/journals/index.php/IJAST/article/view/28360 |
| 33 | Dr. Kamalraj T | CSE | Smart Shopping With Automatic Billing System Using Low Cost Barcode Scanner | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1594035915 1227-1233.pdf - Google Drive |
| 34 | Dr. Kamalraj T | CSE | An Efficient Method for Eye Tracking by Password Verification | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1596373628 1736-1744.pdf - Google Drive |
| 35 | Dr. Janaki K | CSE | Stock Market Prediction Using Long Short Term Memory | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1596373741 1745-1754.pdf - Google Drive |
| 36 | Dr. Sheba Selvam | CSE | Garbage detection for Cleanliness Assessment For Urban Areas Using Convolutional Neural Network | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1mvghr6cnuagQXGJFZQqFLuw0P-9Gv88/view |
| 37 | Dr. Sheba Selvam | CSE | Handwritten Digit and Character Recognition Using Neural Networks | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://serisc.org/journals/index.php/IJAST/article/view/23959 |

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|----|----------------------------|-----|---|---|--|--|------|---------------|--------------------------|---|
| 38 | Dr. Sheba Selvam | CSE | Career Recommender system using Random forest Algorithm | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1ru-6i4RJ1QFH2y43-Cs-YvMTK7Um_Qqd/view |
| 39 | Prof. Anitha K | CSE | Suspect Activity Recognition Using Image Processing and Machine Learning Algorithms | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1596373994 1763-1769.pdf - Google Drive |
| 40 | Prof. Nandini G | CSE | Analysing Cybercrime Underground Economy | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1596374160 1770-1774.pdf - Google Drive |
| 41 | Prof. J. Prabakaran | CSE | A Dynamic Approach for Brain Tumor Detection Using Edge Detection Technique | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1596374262 1775-1782.pdf - Google Drive |
| 42 | Prof.N.Swati priya | CSE | Identification of Cardiac Arrhythmia using Machine Learning | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1-HM1A7zyt2lzvz6lkqBaBp8S7akMQHp8/view |
| 43 | Prof. Huda Mirza Saifuddin | CSE | 3 D Tracking of an Individual using Augmented Reality : AR Tag | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1pRepnL_JrMGVGVbUwCXXezacbOnuPlqT/view |
| 44 | Dr.Rajesh K.S | CSE | Flood Forecasting System using Data Analysis | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://serisc.org/journals/index.php/IJAST/article/view/23971 |

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|----|----------------------------|-----|--|---|--|--|------|---------------|--------------------------|---|
| 45 | Prof. Mahantesh Mathapathi | CSE | Predicting Yield of Crop and detecting fertilizer efficiency | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1XXDNVYHFK4WHhKHUPkNFwsFrcQTmBNp/view |
| 46 | Prof. Srinivasa R | CSE | Prediction of Diabetes using Machine Learning | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://serisc.org/journals/index.php/IJAST/article/view/23972 |
| 47 | Prof. Nandini G | CSE | An Intelligent Pharmacy and Health Care Services | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1t2swoG51c1XHohBHsLfr61-MHajcAF8/view |
| 48 | Prof. P.Ramkumar | CSE | Smart Water Irrigation System Using IoT | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1wcxEWprTk-TltfnjBIotROCLR4yW07rR/view |
| 49 | Prof. Vani S Badiger | ECE | Energy Efficient New Data Aggregation Method for IOT | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | http://www.jcreview.com/admin/Uploads/Files/61b8506b76d879.18759858.pdf |
| 50 | Prof. Sunitha R | ECE | Diagnosis Of Adhd Syndrome By Comparitive Analysis Of Eeg Signals Of Brain | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1pxw_vaApYoyNFfypM7KXR7JkyyIB3hxd/view |
| 51 | Dr. Sumitha Manoj | ECE | Haze Removal System Using Image Processing | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/15YZ4gemOkZTkBaulnuXrpwc2C68nupVN/view |
| 52 | Dr. Sumitha Manoj | ECE | Automatic Accident Detection and Rescue System | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1XBUK6X5O5X6QCG0IBGRXTwLKS0Q9xfCq/view |
| 53 | Dr J | ISE | Cellular | - | International | Journal of | 2020 | International | ISSN- | https://drive.google.com |

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| | Amutharaj | | Automata-based Anomaly node detection in Wireless Sensor Network | | Conference on Advances in Computing Technologies | Critical Reviews | | | 2394-5125 | om/file/d/1eJKp11U8CKeIRvzsocNYTnSUSnh8TSjS/view |
| 54 | Dr J Amutharaj | ISE | Survey: Enhancing Energy Proficiency in Smart Mobile Devices using Composite Offload Decision Algorithms | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | http://www.jcreview.com/admin/Uploads/Files/61b8509be26211.24420552.pdf |
| 55 | Dr J Amutharaj | ISE | Machine Learning based Feature Extraction Methods for Estimation of Driver's Drowsiness | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/11_O2AK4b5wOdEGXo7ZRRWtRBPd_W0R_U/view |
| 56 | Dr J Amutharaj | ISE | Protection of Crops and Animal Intrusion Detection System | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://sersc.org/journals/index.php/IJAST/article/view/23978 |
| 57 | Dr J Amutharaj | ISE | Smart Automated Medicine Vending Machine | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1OUBZlYlNSql4o_EmXR_P6aQdLfe1h687z/view |
| 58 | Dr J Amutharaj | ISE | A Comprehensive study of cryptography & key management based security in cloud computing | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1FQIRgsFLy1FivTBYmPv0iShlto2fl_d/view |

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| 59 | Dr J Amutharaj | ISE | Multi Functionality Robot Navigation With Improved Performances | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1bt0iV Vbqq43BYkhtTB3wM050uzLmwnhr/view |
| 60 | Dr J Amutharaj | ISE | Credit Card Fraud Identification Using Machine Learning Algorithm | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1K6LOE4BfHpaHCpKDQwved9WY7qeGZesD/view |
| 61 | Dr J Amutharaj | ISE | Voice Based Email Service for Visually Impaired | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://serc.org/journals/index.php/IJAST/article/view/23976 |
| 62 | Dr J Amutharaj | ISE | Multi Grid Segmentation of Skin Tumor using 3D Ultra Sound Images | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1I91dukccUFEvnYCtRMCsgDiIXWLBY-W4/view |
| 63 | Dr. Neha Singhal | ISE | Multi Functionality Robot Navigation With Improved Performances | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1bt0iV Vbqq43BYkhtTB3wM050uzLmwnhr/view |
| 64 | Dr. Neha Singhal | ISE | Virtual Eye - an Intelligent Assistant for Visually impaired using Artificial Intelligence | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://serc.org/journals/index.php/IJAST/article/view/23930 |
| 65 | Prof. Vinutha H | ISE | Credit Card Fraud Identification Using Machine Learning Algorithm | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1K6LOE4BfHpaHCpKDQwved9WY7qeGZesD/view |

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| 66 | Prof. Vinutha H | ISE | Voice Based Email Service for Visually Impaired | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://serisc.org/journals/index.php/IJAST/article/view/23976 |
| 67 | Prof. Veda D | ISE | Multi Grid Segmentation of Skin Tumor using 3D Ultra Sound Images | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1191dukcUFEvnYCtRM_CsgDiIXWLBW4/view |
| 68 | Prof. Ashwini R Mali patil | ISE | Smart Traffic Control Barricade System | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1_0U8xYzgic5Q1hfQrz1OTwXIoUcj_C0/view |
| 69 | Prof. Dinesh Kumar M | ISE | Hybrid Technique for Enhancing the Accuracy of early prediction of cardiovascular disease | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1TzpTaK3lz5DIEN1z2WPj9P_fumHw1jvb/view |
| 70 | Prof. Dinesh Kumar M | ISE | Protection of Crops and Animal Intrusion Detection System | - | International Conference on Advances in Computing Technologies | International Journal of Advanced Science and Technology | 2020 | International | ISSN: 2207-6360 (Online) | http://serisc.org/journals/index.php/IJAST/article/view/23978 |
| 71 | Prof. Rajeshwari S | ISE | Design & development of WSN based monitoring system to monitor the strength & lifetime of bridges & flyovers | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1o4PA7GkZl-t6_O3cNy-QkZJBxUjTVZ5G/view |

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|----|---------------------------------|-----|--|--|--|-----------------------------|------|---------------|-------------------------|---|
| 72 | Prof. Nandini N | EEE | Microcontroller based Waste Segregator and Management of Wet waste to Produce Organic Fertilizer | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1a9c6mEzIqm21dUPSMG8D-9PUPrzIDYE3/view |
| 73 | Prof. Bharathi.V | EEE | Camouflage Technique Wireless Multifunctional Army Robot | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/1vt5f9JcD03bjm7_F-9MbbnpNjHXcpWPP/view |
| 74 | Dr. N Saravanan | EEE | Secure and High-Speed Cryptography Architectural Design Techniques for Internet of Things | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/15cuirrLle8tboZcMEeDcNz3AOmqblmEB/view |
| 75 | Prof. Sincy Elezebeth Kuruvilla | EEE | A Novel Design of Flower Tying Machine | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | https://drive.google.com/file/d/17tx22gBPjvJxozxEK8rGqXL29L9FA6ee/view |
| 76 | Prof. Avinash C M | EEE | Mobile Integrated Smart Irrigation System using IoT | - | International Conference on Advances in Computing Technologies | Journal of Critical Reviews | 2020 | International | ISSN-2394-5125 | 197-1596375779 1857-1860.pdf - Google Drive |
| 77 | Prof. R N Ojashwini | ECE | Edge Detection Canny Algorithm Using Adaptive Threshold Technique | Intelligent Data Engineering and Analytics | Frontiers of Intelligent Computing (FICTA) | Springer publication | 2020 | International | ISBN: 978-981-15-5679-1 | https://link.springer.com/chapter/10.1007/978-981-15-5679-1_45 |

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|----|--------------------|------------|--|--|--|--|------|--------------------------|-------------------------|---|
| 78 | Dr. Sumitha Manoj | ECE | Image Registration Techniques using Mutual Information | — | — | Lambert Publication | 2020 | International | 978-620-2-52510-7 | https://www.lap-publishing.com/catalog/details/store/gb/book/978-620-2-52510-7/image-registration-techniques-using-mutual-information?locale=tr |
| 79 | Dr. Rangaiah L | ECE | Achieving ISO 26262 & IEC 61508 objectives with a common development process | Computer aided developments: Electronics and Communication | — | Taylor and Francis Group | 2019 | International | 0307-1022 | https://www.taylorfrancis.com/chapters/edit/10.1201/9780429340710-29/achieving-iso-26262-iec-61508-objectives-common-development-process-gadila-prashanth-reddy-rangaiah-leburu-kankanal-raji-reddy-jayakrishnan-justin-kho |
| 80 | Prof. Kavya MPM | Civil | Traffic signal design and traffic control | — | Engineering Trend and Applied science, Engineering and Technology-2020 | International Institute of Organized Research, India | 2020 | International conference | 978-81-942293-1-5 | — |
| 81 | Dr. Vishwanath K C | Mechanical | — | Recent Advancement in Engineering and Technology | — | ANVI BOOKS & PUBLISHERS, New Delhi-53 | 2020 | International | 978-81-946168-3-2 | https://www.manglampublications.com/product/recent-advancements-in-engineering-and-technology/ |
| 82 | Dr. Rangaiah | ECE | Matrix Approach To Perform Dependent Failure Analysis in compliance with Functional Safety Standards | — | Third International Conference on Computational Intelligence and Informatics | Springer | 2020 | International | ISBN: 978-981-15-1480-7 | https://link.springer.com/chapter/10.1007/978-981-15-1480-7_10 |

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|----|---------------------|---------|--|---|--|--|------|---------------|------------------------------------|---|
| 83 | Prof. S. Chaithanya | ECE | Comprehensive Study of Existing Stream Ciphers | - | International Conference on Inventive Computation Technologies | Springer | 2019 | International | DOI: 10.1007/978-3-030-33846-6_41 | https://link.springer.com/chapter/10.1007%2F978-3-030-33846-6_41 |
| 84 | Dr. Jobish Johns | Physics | - | An Introduction to Coir Fiber: Chemical Modification and its Polymer Composites | - | Lambert Academic Publishers | 2019 | International | 978-620-0-32699-7 | https://www.morebooks.de/store/gb/book/coir-fibers-chemical-modification-and-its-polymer-composites/isbn/978-620-0-32699-7 |
| 85 | Dr. Jobish Johns | Physics | - | Super Elastomers Based on Natural Rubber | - | Lambert Academic Publishers | 2019 | International | 978-6-200-24043-9 | https://www.lap-publishing.com/catalog/details/store/gb/book/978-620-0-24043-9/super-elastomer-based-on-natural-rubber |
| 86 | Dr. AS Hariprasad | Maths | Curved domain discretization with the boundary defined by polar equations | - | Journal of Physics: Conference Series | IOP Publishing Journal of physics | 2019 | International | 1742-6596 | https://iopscience.iop.org/article/10.1088/1742-6596/1473/1/012010 |
| 87 | Dr. Jobish Johns | Physics | Shape Memory Thermoplastic Natural Rubber for Forensic Applications | - | IOP Conference Series: Materials Science and Engineering | IOPScience | 2019 | International | doi:10.1088/1757-899X/553/1/012045 | https://iopscience.iop.org/article/10.1088/1757-899X/553/1/012045 |
| 88 | Dr. Jobish Johns | Physics | Fabric reinforced natural rubber for high performance elastomeric applications | - | International Conference on Innovations and Challenges in Science and Technology | International journal for innovative engineering and management research | 2019 | International | 2456-5083 | https://www.researchgate.net/publication/342231528_Fabric_Reinforced_Natural_Rubber_for_High_Performance_Elastomeric_Applications |

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|----------------|---------------------------|-------------|--|---|--|--|------|---------------|---|---|
| 89 | Prof. Thanuj Kumar | Mechanics I | Fabric reinforced natural rubber for high performance elastomeric applications | - | International Conference on Innovations and Challenges in Science and Technology | International journal for innovative engineering and management research | 2019 | International | 2456-5083 | https://www.researchgate.net/publication/342231528_Fabric_Reinforced_Natural_Rubber_for_High_Performance_Elastomeric_Applications |
| 90 | Dr. Jobish Johns | Physics | Enhancing properties of cured NR/PVA blends using Glutaraldehyde as a Crosslinking | - | IOP Conference Series: Materials Science and Engineering | IOPScience | 2019 | International | doi:10.1088/1757-899X/553/1/012046/meta | https://iopscience.iop.org/article/10.1088/1757-899X/553/1/012046/meta |
| 91 | Dr. K S Krishnakumar | Physics | Radiation Hardness studies on silicon NPN bipolar transistor irradiated with 120MeV nickel ion | - | AIP Conference | AIP Conference | 2019 | International | 978-0-7354-1885-1 | https://aip.scitation.org/doi/abs/10.1063/1.5122537 |
| 2018-19 | | | | | | | | | | |
| 1 | Prof. Mahantesh Mathapati | CSE | Novel Approach For Mitigation Of Collision In Mobile Ad-Hoc Network | - | International Conference On Sustainable Engineering And Technology | AIP Conference | 2018 | International | ISBN: 978-0-7354-1765-6 | https://aip.scitation.org/doi/abs/10.1063/1.5078981 |
| 2 | Prof. Prabakaran J | CSE | Industrial air pollution monitoring system | - | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5083 | https://ijiemr.org/public/uploads/paper/2155_approvedpaper.pdf |

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| 3 | Prof. Rajesh K S | CSE | Placement Prediction using Decision tree algorithms | - | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5083 | https://www.ijiemr.org/public/uploads/paper/2134_approvedpaper.pdf |
| 4 | Prof. Devi T | CSE | Maximizing resource efficiency using task scheduling in cloud | - | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5083 | 230492476.pdf (core.ac.uk) |
| 5 | Prof. T.AuntinJose | CSE | Stress Detection In Social Networks | - | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5085 | https://www.ijiemr.org/downloads/Volume-8 |
| 6 | Prof. Huda MirzaSaifuddin | CSE | Traffic Sign Recognition using Convolutional neural Networks | - | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research/ | 2019 | National | ISSN 2456 – 5086 | https://ijiemr.org/public/uploads/paper/2156_approvedpaper.pdf |
| 7 | Prof. Vani.S.Badiger | ECE | A Review On Data Aggregation Techniques And Algorithm In Wireless Sensor Networks | - | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5087 | http://j-asc.com/VOLUME-6-ISSUE-4-APRIL-2019-1/ |
| 8 | Dr. Rangaiah | ECE | Smart Water Heater | - | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management | 2019 | National | ISSN 2456 – 5088 | https://ijiemr.org/public/uploads/paper/2139_approvedpaper.pdf |



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| 9 | Prof. Vani S Badiger | ECE | Intelligent Wireless Sensor Communication For Green Buildings Using Internet Of Things | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5089 | https://ijiemr.org/public/uploads/paper/2140_approvedpaper.pdf |
| 10 | Dr. S R Aarthi Avanthiga | ECE | Assistive Technology For Impairments | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5090 | https://ijiemr.org/public/uploads/paper/2141_approvedpaper.pdf |
| 11 | Prof. Haritha K | ECE | Vision Based Boat Height Prediction To Avoid Crash And Stream Flow Rate Analysis To Safeguard Boats | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5091 | https://ijiemr.org/index.php/downloads/Volume-8/ISSUE-6 |
| 12 | Dr. Janaki K | CSE | Digital Product Subscribers Churn Prediction Model using Logistic Regression | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research/ | 2019 | National | ISSN 2456 – 5091 | https://ijiemr.org/public/uploads/paper/2132_approvedpaper.pdf |
| 13 | Prof. P. Bhuvaneswari | ECE | Design And Implementation Of An Intelligent System For Crop Protection | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research/ | 2019 | National | ISSN 2456 – 5092 | https://ijiemr.org/public/uploads/paper/2148_approvedpaper.pdf |

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| 14 | Prof. Pushpa M J | ECE | Forest Monitoring Using Wireless Sensor Network | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5093 | https://ijiemr.org/public/uploads/paper/2144_approvedpaper.pdf |
| 15 | Prof. Ajay M | ECE | Anticollision And Voice Controlled Robot With Robotic Arm Using Arduino | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5094 | https://ijiemr.org/public/uploads/paper/2149_approvedpaper.pdf |
| 16 | Prof. Veda D | CSE | Automated shopping trolley for billing system | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5094 | https://ijiemr.org/public/uploads/paper/2138_approvedpaper.pdf |
| 17 | Prof. Sreepathi | ECE | Automobile Door Access Using Face Recognition | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5095 | https://ijiemr.org/public/uploads/paper/2151_approvedpaper.pdf |
| 18 | Prof. Lokesha K | ECE | Congestion Control And Collision Avoidance in Vehicular Networks | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5096 | https://ijiemr.org/public/uploads/paper/2152_approvedpaper.pdf |

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|----|-----------------------|-----|---|---|--|--|------|----------|------------------|---|
| 19 | Prof. Jyothi. A. P | ECE | Time Critical Approach To Avoid Air Traffic Control Based On Internet Of Things And Wireless Sensor Network | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5097 | https://www.ijiemr.org/public/uploads/paper/2153_approvedpaper.pdf |
| 20 | Dr.Muruganandam | ECE | Smart Ration Dispensing System Using Biometrics | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5098 | https://www.ijiemr.org/public/uploads/paper/2154_approvedpaper.pdf |
| 21 | Prof. S.M Vijaya | ECE | Brain Tumor Detection For Mri Images Using Machine Learning | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5099 | https://www.ijiemr.org/public/uploads/paper/2158_approvedpaper.pdf |
| 22 | Prof. Sumitha Manoj | ECE | Spy Robot Controlled By Dtmf Along With Metal Detection And Obstacle Detection | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5100 | https://ijiemr.org/public/uploads/paper/2159_approvedpaper.pdf |
| 23 | Dr. L. Rangaiah | ECE | Iot Enabled Smart Garden Monitoring | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5101 | https://ijiemr.org/public/uploads/paper/2160_approvedpaper.pdf |
| 24 | Dr. Gangadhar Reddy R | ECE | Simulation Of Advanced Cipher Security For 128-Bits Encoded And Decoded In Pipeline Process | — | National Conference on VLSI, Communication and Signal | International Journal for Innovative Engineering and | 2019 | National | ISSN 2456 – 5102 | https://ijiemr.org/downloads/Volume-8/ISSUE-6 |



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| | | | By Verilog Module | | Processing | Management Research | | | | |
|----|----------------------|-----|---|---|--|---|------|----------|------------------|---|
| 25 | Prof. Santhosh G | ECE | Smart Unusual Event Detection Using Low Resolution camera for Enhanced Atm Security | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research/ | 2019 | National | ISSN 2456 – 5103 | https://ijiemr.org/public/uploads/paper/2193_approvedpaper.pdf |
| 26 | Dr. S Usha | CSE | Real Time Design to Circumvent Air Traffic Control Based on WSN & IOT | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research/ | 2019 | National | ISSN 2456 – 5103 | https://ijiemr.org/public/uploads/paper/2153_approvedpaper.pdf |
| 27 | Prof. Abhilasha P | ECE | Railway Safety Management | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research/ | 2019 | National | ISSN 2456 – 5104 | https://ijiemr.org/public/uploads/paper/2163_approvedpaper.pdf |
| 28 | Prof. Santosh Chavan | ECE | Security Surveillance Rover With Soldier Health Monitoring Using Image Processing | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research/ | 2019 | National | ISSN 2456 – 5105 | https://ijiemr.org/public/uploads/paper/2165_approvedpaper.pdf |
| 29 | Dr.R.Gangadhar Reddy | ECE | Charge Restoration Using Adiabatic Logic In Low Power Digital Circuits | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research/ | 2019 | National | ISSN 2456 – 5083 | https://ijiemr.org/downloads/Volume-8/ISSUE-6 |

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| 30 | Prof. Sunitha R | ECE | Denoising Cdn Microarray Images Using Filter Techniques And Convolutional Neural Network | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5084 | https://app.box.com/s/sa2nf4wj8vuvsbme3evzalzil5yromq |
| 31 | Prof. Abhilasha C P | ECE | Simulation Of Advanced Cipher Security For 128-Bits Encoded And Decoded In Pipeline Process By Verilog Module | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5102 | https://ijiemr.org/downloads/Volume-8/ISSUE-6 |
| 32 | Prof. Sunitha R | ECE | Fire Detection In Surveillance Video Using Deep Learning | — | National Conference on VLSI, Communication and Signal Processing | International Journal for Innovative Engineering and Management Research | 2019 | National | ISSN 2456 – 5084 | 1948-april-2019.pdf Powered by Box |
| 33 | Prof. Swetha P | CSE | An Exploration Of Customer Churn Prediction Models Of Telecommunication Orbit | - | International Conference On Sustainable Engineering And Technology | AIP Conference | 2018 | International | ISBN: 978-0-7354-1765-6 | https://aip.scitation.org/doi/10.1063/1.5078967 |
| 34 | Dr. S. Usha | CSE | An Exploration Of Customer Churn Prediction Models Of Telecommunication Orbit | - | International Conference On Sustainable Engineering And Technology | AIP Conference | 2018 | International | ISBN: 978-0-7354-1765-6 | https://aip.scitation.org/doi/10.1063/1.5078967 |

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|----|--------------------------|------------|--|--|--|--|------|---------------|------------------------------------|---|
| 35 | Dr. L. Rangaiah | ECE | A Survey on Performance of Various Image Compression Techniques | – | IEEE 3rd International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques | IEEE | 2018 | International | Electronic ISBN: 978-1-5386-5130-8 | https://ieeexplore.ieee.org/document/9001522 |
| 36 | Prof. Santhosh Chavan | ECE | Smart Village as a model for Swach Bharat using Embedded System | – | 4th National Conference on Communication and Image Processing | http://www.ijcea.com/ | 2018 | National | 2321-3469 | http://www.ijcea.com/smart-village-model-swach-bharat-based-embedded-system/ |
| 37 | Dr. Vijaykumar Halakatti | Civil | – | Limit State Design of Steel and RCC Structures | – | MEDTECH | 2018 | International | 9.7894 E+12 | https://siplind.com/index.php?route=product/search&filter_name=Limit%20State%20Design%20of%20Steel%20and%20RCC%20Structures&type=Title |
| 38 | Dr. R. Shankar Reddy | Mechanical | Effect of environmental friendly filler on thermal properties of areca phenolic resin composites | - | International conference on sustainable engineering and technology | AIP Conference | 2018 | International | ISBN: 978-0-7354-1765-6 | https://aip.scitation.org/doi/abs/10.1063/1.5078970?journalCode=apc |
| 39 | Dr. Sreenivasulu Reddy N | Mechanical | Experimental study of heat transfer on receiver tube of parabolic collector with continuous helical fins | - | National Conference on Advances in Mechanical Engineering | International Research Journal of Engineering and Technology | 2019 | National | 2395-0056 | AIME-05.pdf (irjet.net) |

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| 40 | Prof. K S Madhu | Mechanical | Experimental Investigation of Heat Transfer In Helical Coil Heat Exchanger By Varying Angles With CFD Analysis | - | International Conference on Recent Advances in Mechanical Engineering | International Research Journal of Engineering and Technology | 2019 | International | E-ISSN: 2348-1269 | ijrar.org/papers/IJRARIAMP013.pdf |
| 41 | Prof. Ananda Kumar K S | Mechanical | Performance Analysis of Reliability and Throughput using an improved Receiver Centric MAC protocol and Itree-MAC protocol in Wireless Sensor Networks | Cognitive Informatics and Soft Computing | - | Springer publication | 2018 | International | ISBN: 978-981-13-0617-4 | https://link.springer.com/chapter/10.1007/978-981-13-0617-4_9 |
| 42 | Dr. Balakrishna R | CSE | Performance Analysis of Reliability and Throughput using an improved Receiver Centric MAC protocol and Itree-MAC protocol in Wireless Sensor Networks | Cognitive Informatics and Soft Computing | - | Springer publication | 2018 | International | ISBN: 978-981-13-0617-4 | https://link.springer.com/chapter/10.1007/978-981-13-0617-4_9 |

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| 1 | Dr. S. Usha | CSE | Delivery Robot With QR Scanner Robot for Home Delivery Purpose | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/8.pdf |
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| 2 | Prof. Kamal Raj. T | CSE | Automatic Railway Gate Controller by using Microcontroller | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/81.pdf |
| 3 | Dr. S. Usha | CSE | Automation Approach On Smart Buildings And Adaptive Controls Using Iot | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/6.pdf |
| 4 | Prof. Kamal Raj. T | CSE | Delivery Robot With QR Scanner Robot for Home Delivery Purpose | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/8.pdf |
| 5 | Prof. Mahantesh Mathapati | CSE | Optimized Peer-To-Peer Networks for Efficient File Sharing | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/95.pdf |
| 6 | Prof. Bhuvaneshwari | ECE | Texture Segmentation Based Video Shot Detection and Summarization | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/59.pdf |
| 7 | Prof. Devi T | CSE | Ingenious Street Lighting System Using IR Sensor | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/25.pdf |

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| 8 | Dr. S. Usha | CSE | Delivery Robot With QrScanner Robot for Home Delivery | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/8.pdf |
| 9 | Dr. Rajesh K S | CSE | Reduce the network traffic for cost designing intermediate data | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/74.pdf |
| 10 | Prof. Prabakaran J | CSE | Automatic Railway Gate Controller by using Microcontroller | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/81.pdf |
| 11 | Dr. Rajesh K S | CSE | A Dealt and Effective Solution to Discriminating Jamming Attack in TDMA WSNs | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/63.pdf |
| 12 | Prof. Vandana B | CSE | Big Data Analysis through R for weather monitoring | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/12.pdf |
| 13 | Prof. Priyanka Padki | CSE | Multilevel Security and Data Privacy in Cloud Ecosystem using Composite Cryptographic System | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/16.pdf |

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| 14 | Dr. Sivakumar D | CSE | Data Modeling with Retail Analytics- Location and Market Penetration | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/65.pdf |
| 15 | Prof. Manjunath Varchagall | CSE | Optimized Peer-To-Peer Networks for Efficient File Sharing | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/95.pdf |
| 16 | Prof. Devi T | CSE | A Predictive Algorithm for Quality Analytics in Application Lifecycle Management(ALM) | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/20.pdf |
| 17 | Dr. Sivakumar D | CSE | A Study on Devops Workflow Automation | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/62.pdf |
| 18 | Dr. S. Usha | CSE | Automatic Railway Gate Controller by using Microcontroller | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/81.pdf |
| 19 | Prof. Kamal Raj. T | CSE | Delivery Robot With QrScanner Robot for Home Delivery | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/8.pdf |

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| 20 | Prof. Ambika L G | CSE | App Based Instant bed and Blood Booking for Hospitals with Systematic Facility Management System Using Raspberry Pi | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/35.pdf |
| 21 | Prof. Priyanka Padki | CSE | A Survey of AI Techniques Used In Intrusion Detection System | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/57.pdf |
| 22 | Prof. VM. Saravana Perumal | CSE | Website Recurrence by Reference and Content Watchword with Suitable Response Using WebPagePrevTechnique | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/21.pdf |
| 23 | Dr. Sheba Selvam | CSE | Threat Modeling for Commercial Website - A Tool based approach using OWASP Standards | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/22.pdf |
| 24 | Prof. Ambika L G | CSE | Smart City For Ambulance Using RfCommunication | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/17.pdf |

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| 25 | Dr. Sheba Selvam | CSE | Data noise reduction and analysis for domain based lead generation | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/19.pdf |
| 26 | Dr. Sheba Selvam | CSE | Hybrid approach for root cause analysis of aspects using online reviews" | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/76.pdf |
| 27 | Prof. Huda Mirza Saifuddin | CSE | Detecting WBC Count Using K-Nearest Neighbour Algorithm | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/13.pdf |
| 28 | Dr. Janaki K | CSE | Internet of Things Based Cashless Money Transaction-Electronic Demonitization Approach | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/14.pdf |
| 29 | Dr. S. Usha | CSE | Military Smart Bot | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/23.pdf |
| 30 | Prof. Huda Mirza Saifuddin | CSE | A Survey of AI Techniques Used In Intrusion Detection System | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/57.pdf |

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| 31 | Dr. S. Usha | CSE | Using Data Science Concepts And Practices To Understand And Classify The Startup Funding Ecosystem In India | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/91.pdf |
| 32 | Prof. Prabakaran J | CSE | Military Smart Bot | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/23.pdf |
| 33 | Dr. S. Usha | CSE | Combining AR And Iot To Help Blind People Feel Their Surrounding : "A Match Made To Feel The Paradise | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/31.pdf |
| 34 | Prof. Jyothi. A. P | ECE | Smart City Green Corridor For Time Critical Applications Using Wireless Sensor Network And IoT | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/61.pdf |
| 35 | Dr. T R Gopalakrishnan Nair | CSE | ST Window Parameter Identification In Arbitrary Ecg Signal Post Facto Isoelectric Line Detection | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/48.pdf |
| 36 | Dr. T R Gopalakrishnan Nair | CSE | Secure Cloud Data Storage with Cryptographic Intervention for premier enterprise data | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/90.pdf |

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| 37 | Dr. P Bhuvaneshwari | ECE | Health Monitoring System Of Cattle And Electronic Milk Testing Equipment | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/82.pdf |
| 38 | Dr. S. Usha | CSE | Smart City Green Corridor For Time Critical Applications Using Wireless Sensor Network And IoT | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/61.pdf |
| 39 | Dr. Sivakumar D | CSE | Early Forecasting and Prevention of Cardio Vascular Disease Based on Human Life Style Factors | - | 2018 Conference on Emerging Devices and Smart Systems | IEEE | 2018 | International | Electronic ISBN: 978-1-5386-3479-0 | https://ieeexplore.ieee.org/document/8544286 |
| 40 | Dr. Nehasinghal | ISE | Women self defense system with location tracing and SMS alerting through GSM AND GPS technology | - | International Conference on Recent Trends in Computational Engineering & Technologies | Thomson Reuters | 2018 | International | ISSN: 2348-8034 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/42.pdf |
| 41 | Dr. L Rangaiah | ECE | Neuro-Cam | - | 3rd National Conference on Electronics, Signals and Communication | International Journal of Engineering Research & Technology | 2018 | National | 2278-0181 | https://www.ijert.org/research/neuro-cam-IJERTCONV6IS13104.pdf |
| 42 | Prof. S.M.Vijaya | ECE | Hybridization of Lossless and Lossy compression for medical images | - | 3rd National Conference on Electronics, Signals and Communication | International Journal of Engineering Research & Technology | 2018 | National | 2278-0181 | https://www.ijert.org/research/hybridization-of-lossless-and-lossy-compression-for-medical-images-IJERTCONV6IS13124.pdf |

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| 43 | Prof. Lokesha.K | ECE | Automatic Driver Drowsiness Alert And Health Monitoring System Using GSM | - | 3rd National Conference on Electronics, Signals and Communication | International Journal of Engineering Research & Technology | 2018 | National | 2278-0181 | https://www.ijert.org/research/automatic-driver-drowsiness-alert-and-health-monitoring-system-using-gsm-IJERTCONV6IS13126.pdf |
| 44 | Prof. Haritha K | ECE | Automated smart trolley for Supermarkets | - | 3rd National Conference on Electronics, Signals and Communication | International Journal of Engineering Research & Technology | 2018 | National | 2278-0181 | Automated Smart Trolley for Supermarkets (ijert.org) |
| 45 | Prof. Sumitha.M anoj | ECE | Forgery Detection By Biometric Images Using SVM Classifier | - | 3rd National Conference on Electronics, Signals and Communication | International Journal of Engineering Research & Technology | 2018 | National | 2278-0181 | https://www.ijert.org/research/forgery-detection-by-biometric-images-using-svm-classifier-IJERTCONV6IS13080.pdf |
| 46 | Prof. Santhosh.G | ECE | Low Power comparator Design using Reversible Logic Gates | - | 3rd National Conference on Electronics, Signals and Communication | International Journal of Engineering Research & Technology | 2018 | National | 2278-0181 | https://www.ijert.org/research/low-power-comparator-design-using-reversible-low-power-comparator-design-using-reversible-IJERTCONV6IS13214.pdf |
| 47 | Prof. Chaithanya .S | ECE | A systematic Approach for Image Encryption using CHAOTIC 2D Logistic map Using MATLAB | - | 3rd National Conference on Electronics, Signals and Communication | International Journal of Engineering Research & Technology | 2018 | National | 2278-0181 | https://www.ijert.org/research/a-systematic-approach-for-image-encryption-using-chaotic-2d-logistic-map-using-matlab-IJERTCONV6IS13098.pdf |

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| 48 | Prof. Suresh.M | ECE | Implementation of AD-HOC and Relay mode in Wi-Fi WLAN | - | 3rd National Conference on Electronics, Signals and Communication | International Journal of Engineering Research & Technology | 2018 | National | 2278-0181 | https://www.ijert.org/research/implementation-of-ad-hoc-and-relay-mode-in-wlan-IJERTCONV6IS13127.pdf |
| 49 | Prof. Jyothi A P | ECE | Smart City Green Corridor for time critical applications using wireless sensor networks and IoT | - | 3rd National Conference on Electronics, Signals and Communication | International Journal of Engineering Research & Technology | 2018 | National | 2278-0181 | http://www.gjesr.com/Issues%20PDF/ICRTCET-18/61.pdf |
| 50 | Prof. Pusha.M.J | ECE | Intelligent Information sharing System for Vehicles | - | 3rd National Conference on Electronics, Signals and Communication | International Journal of Engineering Research & Technology | 2018 | National | 2278-0181 | https://www.ijert.org/research/intelligent-information-sharing-system-for-vehicles-IJERTCONV6IS13082.pdf |
| 51 | Prof. Deepika.J | ECE | Border Security Using IoT | - | 3rd National Conference on Electronics, Signals and Communication | International Journal of Engineering Research & Technology | 2018 | National | 2278-0181 | https://www.ijert.org/research/border-security-using-iot-IJERTCONV6IS13123.pdf |
| 52 | Prof. Vani.S.Badiger | ECE | Lora Based Network for Smart Presence of Ambulance Locating system to Vehicle Accident Messagings | - | 3rd National Conference on Electronics, Signals and Communication | International Journal of Engineering Research & Technology | 2018 | National | 2278-0181 | https://www.ijert.org/research/lora-based-network-for-accident-detection-and-providing-quicker-ambulance-services-for-medical-assistance-IJERTCONV6IS13120.pdf |
| 53 | Prof. Satheesha V | Mechanical | Study on Heat transfer during Rectangular slot air jet impingement on Curved surfaces | - | 2nd International ISHMT-ASTFE Heat and Mass Transfer Conference | Begell House Digital Library | 2017 | International | ISBN: 978-1-56700-478-6 | https://www.dl.begellhouse.com/references/497665e8310dfd2d6e9515933d4aa1cf500a2f8a1708404d.html |

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| 54 | Prof. Neha Singhal | ISE | Restful Web Services Composition & Performance Evaluation with different Databases | - | 2017 International Conference on Electrical, Electronics, Communication, Computer, and Optimization Techniques | IEEE | 2017 | International | Electronic ISBN: 978-1-5386-2361-9 | https://ieeexplore.ieee.org/document/8284608 |
| 55 | Dr. Usha Sakthivel | CSE | Restful Web Services Composition & Performance Evaluation with different Databases | - | 2017 International Conference on Electrical, Electronics, Communication, Computer, and Optimization Techniques | IEEE | 2017 | International | Electronic ISBN: 978-1-5386-2361-9 | https://ieeexplore.ieee.org/document/8284608 |
| 56 | Dr. A S R Murty | EEE | Comprehensive study on the signaling schemes in on chip interconnects | - | 3rd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology | IEEE | 2018 | International | Electronic ISBN: 978-1-5386-2440-1 | https://ieeexplore.ieee.org/abstract/document/9012235 |
| 57 | Prof. Praveen A Patil | EEE | Wireless battery charging for electrical vehicles | - | 3rd National Conference on Recent Advancement in Electrical & Electronics Technology | Bhubaneswar: Institute for Research and Development India | | National | ISSN: 2347-2820 | - |
| 58 | Prof. Sincy Elezebeth Kuruvilla | EEE | Smart water supply monitoring system | - | 3rd National Conference on Recent Advancement in Electrical & Electronics Technology | Bhubaneswar: Institute for Research and Development India/ | | National | ISSN: 2347-2820 | - |

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| 59 | Prof. Avinash C M | EEE | Transformer Parameter measurement using Wi-Fi | - | 3rd National Conference on Recent Advancement in Electrical & Electronics Technology | Bhubaneswar: Institute for Research and Development India/ | | National | ISSN: 2347-2820 | - |
| 60 | Prof. Pavan Kumar K R | EEE | Energy efficient solar stove | - | 3rd National Conference on Recent Advancement in Electrical & Electronics Technology | Bhubaneswar: Institute for Research and Development India/ | | National | ISSN: 2347-2820 | - |
| 61 | Prof. Praveen A Patil | EEE | Peak Power load management using IOT | - | 3rd National Conference on Recent Advancement in Electrical & Electronics Technology | Bhubaneswar: Institute for Research and Development India/ | | National | ISSN: 2347-2820 | - |
| 62 | Prof. Avinash C M | EEE | Smart meters for modern grids | - | 3rd National Conference on Recent Advancement in Electrical & Electronics Technology | Bhubaneswar: Institute for Research and Development India/ | | National | ISSN: 2347-2820 | - |

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| 1 | Dr.R.Balakrishna | CSE | Content Based Load Balancing Using Web Clusters & Service Rankings | Artificial Intelligence and Evolutionary Computations in Engineering Systems | - | Springer | 2016 | - | ISBN: 978-81-322-2656-7 | https://link.springer.com/chapter/10.1007/978-81-322-2656-7_1 |
| 2 | Dr.R.Balakrishna | CSE | Data Mining for Healthy Tomorrow with the Implementation of Software Project | Artificial Intelligence and Evolutionary Computations in Engineering Systems | - | Springer | 2016 | - | ISBN: 978-81-322-2656-7 | https://link.springer.com/chapter/10.1007/978-81-322-2656-7_31 |

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| 3 | Dr. Usha Sakthivel | CSE | EPCA: Energy Preservation using Clustering Approximation in Sensor Network | - | International Conference on Emerging Research in Computing, Information, Communication and Applications | Springer | 2017 | International | 978-981-10-4741-1_47 | https://link.springer.com/chapter/10.1007%2F978-981-10-4741-1_47 |
| 4 | Dr. Jyothi A P | ECE | EPCA: Energy Preservation using Clustering Approximation in Sensor Network | - | International Conference on Emerging Research in Computing, Information, Communication and Applications | Springer | 2017 | International | 978-981-10-4741-1_47 | https://link.springer.com/chapter/10.1007%2F978-981-10-4741-1_47 |
| 5 | Prof. Prabaharan J | CSE | Wireless home automation and security system using MQTT protocol | - | 2017 2nd IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT) | IEEE | 2017 | International | Electronic ISBN: 978-1-5090-3704-9 | https://ieeexplore.ieee.org/document/8256958 |
| 6 | Prof. Manigandan J | CSE | Offline Handwriting Identification using Adaptive Neural Fuzzy Inference System | - | 1st International Conference on Innovations in Computing & Networking | International Journal of Advanced Networking & Applications | 2016 | International | ISSN: 0975-0282 | http://www.ijana.in/Special%20Issue/S47.pdf |
| 7 | Prof. Swetha P | CSE | Securing the Data Confidentiality of Patients in Distributed M-Healthcare Cloud Computing System | - | 1st International Conference on Innovations in Computing & Networking | International Journal of Advanced Networking & Applications | 2016 | International | ISSN: 0975-0282 | https://www.ijana.in/Special%20Issue/S15.pdf |

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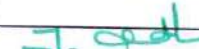
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| 8 | Prof. SwathiPriya N | CSE | Offline Handwriting Identification using Adaptive Neural Fuzzy Inference System | - | 1st International Conference on Innovations in Computing & Networking | International Journal of Advanced Networking & Applications | 2016 | International | ISSN: 0975-0282 | http://www.ijana.in/Special%20Issue/S47.pdf |
| 9 | Prof. Devi T | CSE | Offline Handwriting Identification using Adaptive Neural Fuzzy Inference System | - | 1st International Conference on Innovations in Computing & Networking | International Journal of Advanced Networking & Applications | 2016 | International | ISSN: 0975-0282 | http://www.ijana.in/Special%20Issue/S47.pdf |
| 10 | Prof. T. AuntinJose | CSE | Live Website Traffic Analysis Integrated with Improved Performance for Small Files Using Hadoop | - | 1st International Conference on Innovations in Computing & Networking | International Journal of Advanced Networking & Applications | 2016 | International | ISSN: 0975-0282 | https://www.ijana.in/Special%20Issue/S90.pdf |
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| 12 | Dr.L. Swarna Jyothi | ECE | Neuro-Muscular Fatigue Prediction Using Seng Signals | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)- 2395-4396 | https://ijariie.com/AdminUploadPdf/NEURO_MUSCULAR_FATIGUE_PREDICTION_USING_SEMG_SIGNALS_1577.pdf |
| 13 | Dr.Rangaiah L | ECE | Brain Machine Interface – Bmi | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)- 2395-4396 | https://ijariie.com/AdminUploadPdf/Brain_Machine_Interface_%E2%80%93_BMI_1551.pdf |


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| 14 | Prof. P.Bhuvaneshwari | ECE | Health Monitoring And Secured Data Management Using IOT | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/Health_Monitoring_and_Secured_Data_Management_Using_IOT_1555.pdf |
| 15 | Prof. Chaithanyas | ECE | IOT Based Mine Safety System Using Wireless Sensor Network | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | http://ijariie.com/AdminUploadPdf/IOT_BASED_MINE_SAFETY_SYSTEM_USING_WIRELESS_SENSOR_NETWORK_1552.pdf |
| 16 | Prof. Vani.S.Badiger | ECE | Smart Home Energy Management System Including Renewable Energy Based On Zigbee | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/SMART_HOME_ENERGY_MANAGEMENT_SYSTEM_INCLUDING_RENEWABLE_ENERGY_BASED_ON_ZIGBEE_1553.pdf |
| 17 | Prof. Jyothi A P | ECE | Sensor Based Smart Dustbin For Waste Segregation And Status Alert | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/SENSOR_BASED_SMART_DUSTBIN_FOR_WASTE_SEGREGATION_AND_STATUS_ALERT_1559.pdf |
| 18 | Prof. Saroja Maralabha vi | ECE | Smart Security Solution For Women Using Iot | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/Smart_Security_Solution_For_Women_Using_IOT_1560.pdf |

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| 19 | Prof. Haritha K Sivaraman | ECE | Brigde Monitoring System Using Wireless Networks | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/BRIGDE_MONITORING_SYSTEM_USING_WIRELESS_NETWORKS_1561.pdf |
| 20 | Prof. Sunitha R | ECE | Implementation Of Canny Edge Detection Algorithm On FPGA And Displaying Image Through VGA Interface | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/Implementation_of_Canny_Edge_Detection_Algorithm_on_FPGA_and_displaying_Image_through_VGA_Interface_1566.pdf |
| 21 | Prof. B B S Kumar | ECE | E-CASH: A Novel Approach Of Virtual Money Transaction Using Smart Cards | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/E_CASH_A_Novel_Approach_of_Virtual_Money_Transaction_Using_Smart_Cards_1570.pdf |
| 22 | Prof. Sumitha Manoj | ECE | Electronic Valve System With Quantitative Control | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/ELECTRONIC_VALVE_SYSTEM_WITH_QUANTITATIVE_CONTROL_1572.pdf |
| 23 | Prof. Sunitha. R | ECE | Vehicle License Plate Recognition Using Artificial Neural Network With Otp Verification Gate Control System | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/VEHICLE_LICENSE_PLATE_RECOGNITION_USING_ARTIFICIAL_NEURAL_NETWORK_WITH_OTP_VERIFICATION_GATE_CONTROL_SYSTEM_1574.pdf |

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| 24 | Prof. Aruna S | ECE | Power Monitoring With IOT Connectivity To Specific Home Or Building | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/Power_Monitoring_with_IOT_Connectivity_To_Specific_Home_or_Building_1575.pdf |
| 25 | Prof. Santosh Chavan | ECE | Development Of A System For Estimation Of Npk And Ph In Soil And Disease Detection In Soil And Leaves | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/DEVELOPMENT_OF_A_SYSTEM_FOR_ESTIMATION_OF_NPK_AND_PH_IN_SOIL_AND_DISEASE_DETECTION_IN_SOIL_AND_LEAVES_1576.pdf |
| 26 | Dr. Rangaiah Leburu | ECE | Smart Inverter | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/SMART_INVERTER_1579.pdf |
| 27 | Dr L.Swarna Jyothi | ECE | Automated Toll Collection And Emergency Traffic Handling System | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/AUTOMATED_TOLL_COLLECTION_AND_EMERGENCY_TRAFFIC_HANDLING_SYSTEM_1582.pdf |
| 28 | Prof. Chaithanya S | ECE | Survey On Different Methods Of Image Steganography | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/SURVEY_ON_DIFFERENT_METHODS_OF_IMAGE_STEGANOGRAPHY_1585.pdf |

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| 29 | Prof. Sreepathi V | ECE | Cloud Based Its To Implement Traffic Rules Voilation Detection | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/CLOUD_BASED_ITS_TO_IMPLEMENT_TRAFFIC_RULES_VOILATION_DETECTION_1587.pdf |
| 30 | Prof. S.M.Vijaya | ECE | Eye Controlled Camera Based Wheelchair Using Raspberry-Pi | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/EYE_CONTROLLED_CAMERA_BASED_WHEELCHAIR_USING_RASPBERRY_PI_1589.pdf |
| 31 | Prof. Pushpa M J | ECE | Eeg Based Brain Controlled Mobile Robot | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/EEG_BASED_BRAIN_CONTROLLED_MOBILE_ROBOT_1596.pdf |
| 32 | Dr. L. Swarna Jyothi | ECE | Review On Cross Layer Hybrid Scheme In Wmsns Using Error Correcting Codes For Energy Efficiency | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | http://ijariie.com/AdminUploadPdf/REVIEW_ON_CROSS_LAYER_HYBRID_SCHEME_IN_WMSNS_USING_ERROR_CORRECTING_CODES_FOR_ENERGY_EFFICIENCY_1598.pdf |
| 33 | Prof. Santhosh G | ECE | Remote Area Surveillance System Using Zigbee Networks | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)-2395-4396 | https://ijariie.com/AdminUploadPdf/Remote_Area_Surveillance_System_Using_Zigbee_Networks_1599.pdf |

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| 34 | Prof. Santosh Chavan | ECE | Review On Cross Layer Hybrid Scheme In Wmsns Using Error Correcting Codes For Energy Efficiency | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)- 2395-4396 | http://ijariie.com/AdminUploadPdf/REVIEW_ON_CROSS_LAYER_HYBRID_SCHEME_IN_WMSNS_USING_ERROR_CORRECTING_CODES_FOR_ENERGY_EFFICIENCY_1598.pdf |
| 35 | Dr.P.V.Rao | ECE | A Comprehensive Assessment On Nano Bio Sensor To Sense Cancer Cells | - | National Conference on VLSI, Communication and Signal Processing | International Journal of Advance Research and Innovative Ideas in Education | 2017 | National | ISSN(O)- 2395-4396 | https://link.springer.com/article/10.1007/s00542-016-3173-z |
| 36 | Dr. Swarna Jyothi | ECE | Robustic Public Key Cryptosystem For Space Data Communication | - | 2016 International Conference on Communication and Electronics Systems | IEEE | 2016 | International | Electronic ISBN: 978-1-5090-1066-0 | https://ieeexplore.ieee.org/document/7889818 |
| 37 | Prof. Deepika J | ECE | Parametrical variation and its effects on characteristics of microstrip rectangular patch antenna | - | 2017 Second International Conference on Electrical, Computer and Communication Technologies | IEEE | 2017 | International | Electronic ISBN: 978-1-5090-3239-6 | https://ieeexplore.ieee.org/document/8117913 |
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| 39 | Dr. R. Balakrishna | ECE | Comparative analysis of delay and throughput using IEEE 802.11 and receiver centric-MAC protocol in wireless sensor networks | - | 2017 Innovations in Power and Advanced Computing Technologies | IEEE | 2017 | International | Electronic ISBN: 978-1-5090-5682-8 | https://ieeexplore.ieee.org/document/8245078 |
| 40 | Prof. Ananda Kumar K S | ISE | Comparative analysis of delay and throughput using IEEE 802.11 and receiver centric-MAC protocol in wireless sensor networks | - | 2017 Innovations in Power and Advanced Computing Technologies | IEEE | 2017 | International | Electronic ISBN: 978-1-5090-5682-8 | https://ieeexplore.ieee.org/document/8245078 |
| 41 | Prof. Jyothi A.P | ECE | CFCLP-A Novel clustering Framework based on combinatorial Approach and Linear Programming in Wireless Sensor Network | - | 2017 2nd International Conference on Computing and Communications Technologies | IEEE | 2017 | International | Electronic ISBN: 978-1-5090-6221-8 | https://ieeexplore.ieee.org/document/7972237 |
| 42 | Dr. Usha Sakthivel | CSE | CFCLP-A Novel clustering Framework based on combinatorial Approach and Linear Programming in Wireless Sensor Network | - | 2017 2nd International Conference on Computing and Communications Technologies | IEEE | 2017 | International | Electronic ISBN: 978-1-5090-6221-8 | https://ieeexplore.ieee.org/document/7972237 |
| 43 | Dr. Jobish Johns | Physics | Curing of Natural Rubber/Polyvinyl Alcohol Blends Using Glutaraldehyde | - | 3rd International Conference on Applied Physics and Materials Applications | Elsevier | 2018 | International | ISSN: 2214-7853 | https://www.sciencedirect.com/science/article/pii/S2214785318307454 |

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| 44 | Dr. M Arunachalam | EEE | Retrofits and upgrades in Power transmission systems using HVDC & FACTS technologies | Annual Technical Volume of Electrical Engineering Board Journal (IEI) | - | The Institution of Engineers (India) | 2016 | National | 978- 81- 93256 7-2-5 | https://www.ieindia.org/webui/ajax/Downloads/WebUI_PDF/Technical_Volume_Pdf/ATV_ELDB.pdf |
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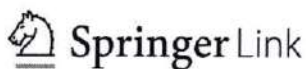


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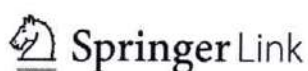
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- A. Prashanthi (1)
- P. V. Rao (1) Email author (raopachara@gmail.com)
- Santhosh Kumar (2)
- V. Sreepathi (3)
- A. Y. Prasad (4)

1. VBIT, , Hyderabad, India
2. UBDTCE, , Davanagere, India
3. RRCE, , Bengaluru, India
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Abstract

An eye situation glaucoma is analysed effectively with the damages occurred in the optic nerve of the eye and it will become for a long period. This becomes proactive in successive stages mainly pressure built up in the optic nerve inside the eye. The current Scenario state that most predominant glaucoma type is of primary open angle glaucoma (OAG) management Glaucoma cannot be identified easily until it becomes more serious in life. Most of the glaucoma type is of primary open angle glaucoma management. An attention is made on one of the eye diseases conditionally, glaucoma which hurts the optic nerve in addition after some time emerges as being severe. The condition is induced internal to the attention with the aid of way of the increase of intraocular stress, the internal tissue layer structure of a retina acts as foreground of a watch that senses light and sends photographs to the mind. This state of affairs will display up salient and might not display in some other time right away. If the disorder is detected early then it prevents field of vision distress. Primary Open Angle Glaucoma Administration is certainly one of the maximum essential as well as most difficult factors of the glaucoma discovery. The numerous findings which depend upon clinical analysis of glaucoma are intraocular pressure, visual view loss and also optical


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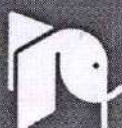



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Carbon Nanotubes Reinforced Natural Rubber Composites

*Apinya Krainoi, Jobish Johns, Ekwipoo Kalkornsurapranee
and Yeampon Nakaramontri*

Abstract

Several advanced methods have been introduced to disperse CNTs in the NR matrix. Various aspects highlighted in this chapter include the mixing processes such as melt mixing and latex mixing methods. As well as, formations of functional groups on the surfaces of CNT using silane coupling agents (i.e., ex-situ and in-situ functionalization). Moreover, hybrid CNT are beneficial to achieve better electrical conductivity of NR/CNT composites. These efforts are aimed to reduce the percolation threshold concentration in the NR composites for application as conducting composites based on electrically insulating rubber matrix. Sensor application is developed based on conducting NR composites. NR composites showed changing of resistivity during elongation termed as piezoresistivity. The most commonly used rubber matrices such as NR, ENR and IR are mixed with a combination of CNT and CB fillers as hybrid filler. The presence of linkages in the ENR composites results in the least loss of conductivity during external strain. It is found that the conductivity becomes stable after 3000 cycles. This is found to be similar to the NR-CNT/CB composite, while a few cycles are needed for IR-CNT/CB owing to the higher filler agglomeration and poor filler-rubber interactions. This is attributed to the polar chemical interactions between ENR and the functional groups on the surfaces of CNT/CB.

Keywords: natural rubber, carbon nanotube, nanocomposites, electrical conductivity, sensor

1. Introduction

Natural rubber (NR) is widely used in various industries owing to its excellent elasticity and mechanical properties. NR has been typically used in many industrial applications including tires, sports articles, sealing materials, medical glove, rubber boots and dairy rubber items [1]. Moreover, application of NR can be more applied by addition of fillers, such as silica, clay, carbon black, and carbon nanotube that is properties of NR can be induced by filler. As NR was converted from insulator material to be used as semi-conductive.

CNT have been widely interested for using as conductive filler in NR composites, due to the sp^2 -hybridized carbon molecules throughout its molecular structure. Its carbon-carbon bond angles can be mechanically distorted reversibly, and core electrons can act as free electrons of the carbon atoms on CNT surfaces. Thus, the

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Apinya Krainoi¹, Jobish Johns², Ekwipoo Kalkornsurapranee³
and Yeampon Nakaramontri^{4*}

1 Department of Biotechnology, School of Bioresources and Technology, King Mongkut's University of Technology Thonburi, Bangkok, Thailand


2 Department of Physics, Rajarajeswari College of Engineering, Bangalore, India


3 Department of Materials Science and Technology, Faculty of Science, Prince of Songkla University, Hat-Yai, Thailand

4 Sustainable Polymer and Innovative Composite Materials Research Group, Department of Chemistry, King Mongkut's University of Technology Thonburi, Bangkok, Thailand

*Address all correspondence to: yeampon.nak@kmutt.ac.th

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Prediction and exposure of cancer cells through Walsh hadamard transform and MATLAB R2017a techniques

D. Sobyra , Sumitha Manoj

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Abstract

In the present health scenario, with the advancements in the field of genomic signal processing, signal processing concepts are used for the identification of cancer easier than by using biological experiments. Cancer is caused due to the genetic abnormalities that happen in the human and it is the permanent change of the Deoxyribo nucleic acid sequence in the cells of human. Hence, analysis of the Deoxyribo nucleic acid sequence is done using signal processing techniques because it is simpler and time-efficient method. The various signal processing techniques that can be applied is Fast Fourier Transform, Hilbert Transform, Wavelet Transform, Walsh Hadamard Transform (WHT), Discrete Hartley Transform etc. In this research Walsh Hadamard Transform is adopted for analysis of cancer and normal cells. Also, MATLAB R2017a technique is used for simulations which support bio-informatics toolbox. The developed algorithm is examined for a number of databases existing in NCBI center. From the final results it was found that, the proposed method is proven to be a great advantage for easier prediction and diagnosis of cancer cells.

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Keywords

GSP; Cancer Cells; Deoxyribo Nucleic Acid; Prediction; MATLAB R2015a

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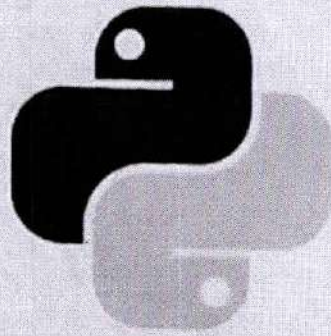
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PYTHON PROGRAMMING AND ITS APPLICATIONS

DR. B. SHADAKSHARAPPA
DR. R. BALAKRISHNA
PROF. P. RAMKUMAR


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Dr. B. Shadaksharappa, currently Working as Principal, of Sri Sairam College of Engineering (Formerly Shirdi Sai Engineering College), Anekal, Bangalore. He has obtained his under graduation in CSE, Master of Science in Software Systems and PhD in CSE. He has rich academic and research experience for about 27 years. He is actively involved in guiding PhD Candidates in the field of CSE. He has published and presented many research papers in National, International Conferences and reputed Journals. He has many Patents to his credit. He is the advisory committee member for various International conferences and Served as peer reviewer for International journals such as Digital Image Processing, Information Management & Computer Security, Industrial Management & Data Systems and Journal of Theoretical and Applied Electronic Commerce Research, Emerging Technology and applications in Engineering Technology and sciences, Computer Applications in Engineering, Technology and Sciences. He is actively involved in organizing International, National conference, Faculty development programs, workshops and symposiums. He has also served as BOE (CS/IS) member, coordinator and BOE Chairman in VTU and BOS member (CS/IS) in VTU. He is a Member of Governing Council for Sri Sairam College of Engineering, Sri Sairam Pre university College, Sahyadri College of Engineering and Management, Mangalore.



Dr. R. Balakrishna, Working as Dean and Professor in CSE of RajaRajeswari College of Engineering, Bangalore. He is having a about 21 years of Teaching & Research Experience. He is having expertise in the domain of Ad-hoc Networks, Mobile Computing, Computer Networks, and Distributed Operating System, IOT, Machine Learning, AI. He obtained his Ph.D. from Sri Krishnadevaraya University, AP. He is a life member of several organizations and societies like ISTE, IEEE, CSI, IAENG. He had 15 Patent granted and filed Indian and Abroad. He has published 81 papers in refereed International Journals, 36 papers in national and International Conferences. 2 Text books are written. 5 Different Sponsored project are completed from the different agencies like AICTE, VGST, NIST, DST. Under his guidance 7 Research scholars awarded Ph.D. Degree in Computer Science and Engineering. Currently he is guiding 4 PhD scholars at VTU. 1 M.Sc. Engg. By Research at VTU.



Prof. P. Ramkumar Working as an Assistant Professor of Computer Science & Engineering at Sri Sairam College of Engineering, Bangalore. He received his undergraduate degree from Sri Sai Ram Engineering College, Chennai in Computer Science and Engineering in the year 2006. He obtained his Master degree in Computer Science and Engineering at National Engineering College, Kovilpatti in the year 2009. He has experience of 11 years in Engineering education. His research interests include Wireless Sensor Networks, Mobile Ad Hoc Networks, Machine Learning, and Artificial Intelligence. He filed one patent and he has published research papers in various national and international conference and reputed journals.

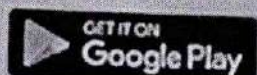
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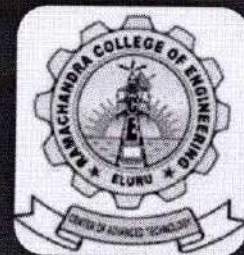


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Application of Splines for Approximation

^[1] Kallur V Vijayakumar, ^[2] A.S. Hariprasad, ^[3] H. T. Rathod

^[1] Assistant Professor, Department of Mathematics, BMSIT&M. Bengaluru, India

^[2] Professor & Head, Department of Mathematics, RRCE, Bengaluru, India

^[3] Former Professor, Department of Mathematics, Central College, Bengaluru, India

Abstract:

We consider the application of splines to function and integral function approximations, where the integral function refers to the indefinite integral whose lower limit is a constant and upper limit is a variable or function of a variable. Integral function approximation are very useful, one simple and immediate application refers to the construction of a table of integral for example the table of logarithms, normal distribution etc, other applications are possible in the evaluation of multiple integrals over triangular and tetrahedral regions to name a few.

Keywords:

Splines, Approximation

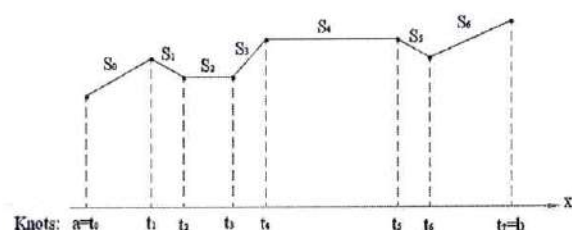
1. INTRODUCTION

A quartic spline that interpolates the first derivatives of the given function at the knots and the second derivatives between them is discussed. A feasible algorithm for the determination of the quartic spline for the second derivative parameter $\lambda = 0, 1/2, 1$ is presented. We consider the application of quartic splines to function and integral function approximations, where the integral function refers to the indefinite integral whose lower limit is a constant and upper limit is a variable or function of a variable. Integral function approximation are very useful in the construction of a table of integral, for example the table of logarithms, normal distribution etc, other applications are possible in the evaluation of multiple integrals over triangular and tetrahedral regions. In this paper, we limit ourselves to simple application that is when the upper limit is a variable. A method based on spline integration to approximate the integral function is presented and compared the performance of quartic spline with standard cubic splines with the aid of graphs by using MATLAB programming.

2. SPLINES & QUARTIC SPLINE INTERPOLANT

The spline is a flexible strip used to produce a smooth curve through a designated set of points. In computer graphics the term spline curve refers any composite curve forms with polynomial sections satisfying specified continuity conditions at the boundary of the pieces. A spline function is a function that consists of polynomial pieces joined together with certain smoothness conditions. A simple example is the polygonal function (or spline of degree 1), whose pieces are linear polynomials joined together to achieve continuity, as in figure below. The points $t_0, t_1, t_2, \dots, t_n$ at which the function changes its character are turned knots in the theory of splines. Thus, the spline function shown in below figure has eight knots.

Figure First-degree spline function



Such a function appears complicated when defined in explicit terms. So we write

$$S(x) = \begin{cases} S_0(x) & x \in [t_0, t_1] \\ S_1(x) & x \in [t_1, t_2] \\ \vdots & \vdots \\ S_{n-1}(x) & x \in [t_{n-1}, t_n] \end{cases}$$

Where $S_i(x) = a_i x + b_i$ because each piece of $S(x)$ is a linear polynomial. Such a function $S(x)$ is piecewise linear.

Spline of degree k

A function S is called a spline of degree k if:

1. The domain of S is an interval $[a, b]$.
2. $S, S', S'', \dots, S^{(k-1)}$ are all continuous functions on $[a, b]$.
3. There are points t_i (called knots of S) such that $a = t_0 < t_1 < t_2 < \dots < t_n = b$ and S is a polynomial of degree at most k on each subinterval $[t_i, t_{i+1}]$.

Higher degree splines are used whenever more smoothness is needed in the approximating function. From the definition of a spline function of degree k , we see that such a function will be continuous and have continuous derivatives $S', S'', \dots, S^{(k-1)}$. If we want the approximating spline to have a continuous m th derivative, a spline of degree at least $m+1$ is selected. Consider a situation in which knots $t_0 < t_1 < t_2 < \dots < t_n$ have been prescribed. Suppose that piecewise polynomial of degree m is to be defined with



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Analysis of tube-in-tube copper helical heat exchanger to improve heat transfer

N. Sreenivasalu Reddy ^{a,✉}, S. Gowreesubramanya ^b, K.C. Vishwanath ^a, S. Kanchiraya ^c, V. Satheesha ^a, M. Karthikeyan ^a

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Abstract

The present work aims to investigate the effect of different configurations of tube-in-tube helically coiled heat exchanger. Commercial CFD codes were used to predict the fluid flow and heat transfer in a tube-in-tube helical heat exchanger. The model of different configurations of the inner tube has been simulated by varying the dean number. The numerical results are verified and found to be in good agreement with reported data in the literature. Nusselt Number and friction factor are evaluated for different angular positions. The use of geometry E increases the Nusselt Number and friction factor by 17.05% and 15% respectively at a Dean number of 400 as compared with a circular tube.

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Keywords

Heat exchanger; Dean Number; Nusselt Number; Friction factor

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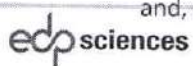
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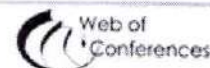
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¹ Department of Mechanical Engineering, Einstein College of
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² Department of Mechanical Engineering, Raja Rajeshwari
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Transient Heat Transfer Analysis Of Dimpled Rod

Abdul Rajak Kaldgi¹, Abdul Rajak Buradi², K C Vishwanath³, N. Sreenivasalu Reddy³,
Rayid Muneer¹, Mohammed Avvad¹, A Chandrasekhar⁴, Asif Afzal¹ and C Ahamed Saleel⁵

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ahamedsaleel@gmail.com

arkmech9@gmail.com

¹ P. A. College of Engineering (Affiliated to Visvesvaraya Technological University), Mangalore, India

² NITTE Meenakshi Institute of Technology (NMIT), Bangalore


³ Raja Rajeswari College of Engineering, Bangalore, India

⁴ Bangalore Institute of technology, Bangalore, India

⁵ Department of Mechanical Engineering, College of Engineering, King Khalid University, Abha, Saudi Arabia

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Abstract

The considerable heat transfer increase that the dimple causes has led to an interest in its technology recently, with pressure drop penalties lesser than other heat augmentation types. The increase in heat transfer using dimples is based on the fact that the scrubbing of cooling fluid occurs within the dimple and intensifies the delay of flow separation over the surface. The researchers have used different



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Effect of copper oxide nano fluids as coolant on thermal performance of spiral heat exchanger

Abdul Razak Kaladgi¹, K. C. Vishwanath², P. Madhu³, A. Chandrashekar⁴ and B. V. Chaluvvaraju⁵

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acsmech@gmail.com

¹ Department of Mechanical Engineering, P.A. College of Engineering, Mangalore – 574153, Karnataka

² Department of Mechanical Engineering, Raja Rajeswari College of Engineering, Bengaluru – 560074, Karnataka

³ Department of Mechanical Engineering, B. N. M. Institute of Technology, Bengaluru – 560070, Karnataka

⁴ Department of Mechanical Engineering, Bangalore Institute of Technology, Bengaluru – 560004, Karnataka

⁵ Department of Physics, Bangalore Institute of Technology, Bengaluru – 560004, Karnataka

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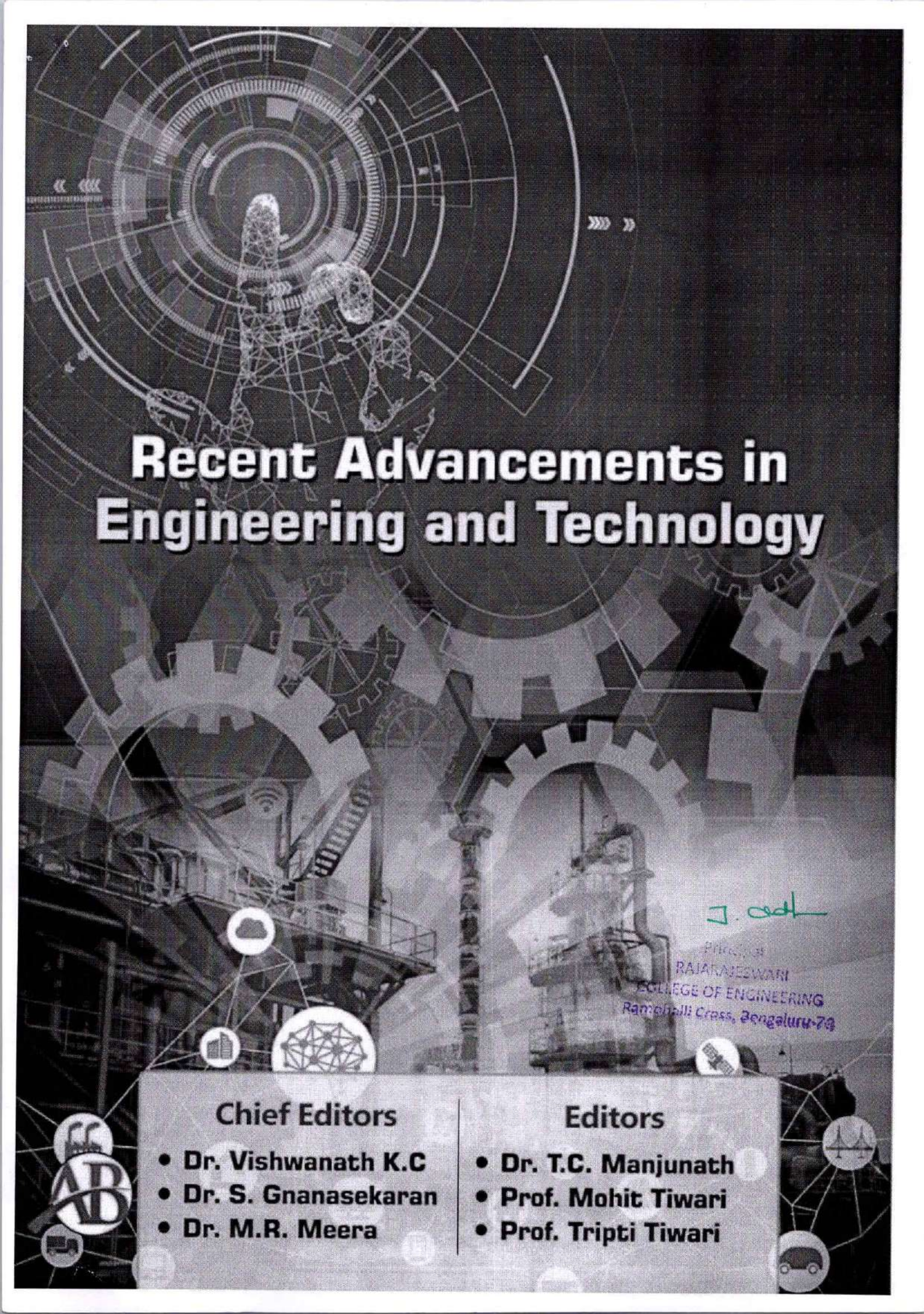
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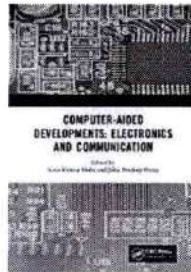
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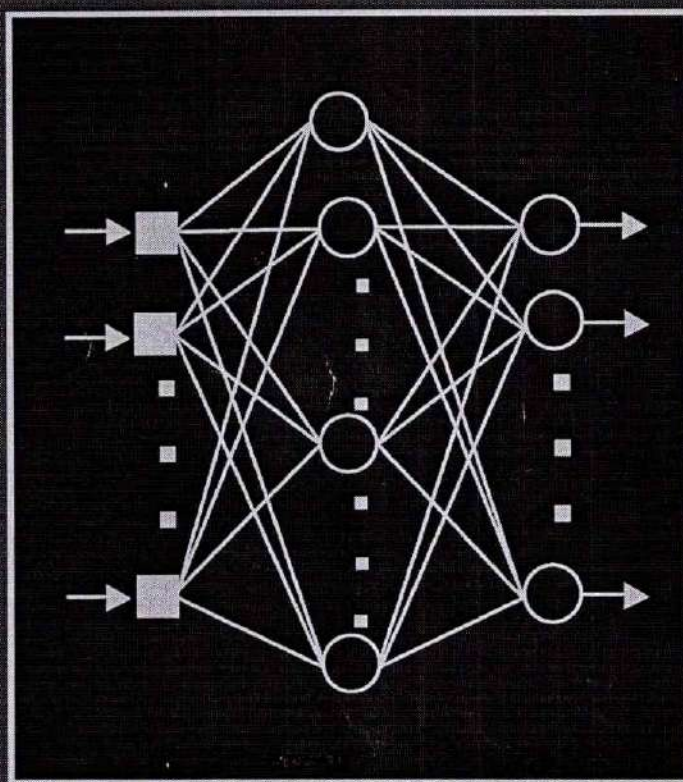
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Impact of cloud security in digital twin

Susila Nagarajan^a, Sruthi Anand^a, Usha Sakthivel^b

^aDepartment of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India

^bDepartment of Computer Science and Engineering, Raja Rajeswari College of Engineering, Bengaluru, Karnataka, India

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Abstract

Digital Twin is a way to virtually represent or model a physical object using the real time data. This innovation sets up a way to deal with industries and organizations to supervise their products, consequently bridging the gap between design and implementations. As the name suggests, "Digital Twin" infers that a reproduction of the product is made in order to have a nearby relationship with the live item. The procedure of computerized twin begins by gathering real time data, processed data, and operational data and performs distinctive investigation which helps in anticipating the future. This additionally enhances the customer experiences by giving a digital feel of their product. The objective behind all these is the job of gathering information and putting them in a place, i.e., the cloud which could store exorbitant data. The user experience gets enhanced by the intervention of digital twin technology which could help in the successful working of the products geographically distributed. The impact of Internet of Things and Cloud Computing lifts up the digital twin.

The information gathered from the sources can be arranged in terms of utilization and prospect to change on a timely basis. These data, as they are stored require proper coordination and a legitimate use.

Digital Twin innovation assumes incredible opportunities in the field of manufacturing, healthcare, smart cities, automobile and so on. The effect of having a digital twin for the product makes it simple for activities and recognize the blemishes, if any happened. This approach can help reduce the workload and furthermore can get trained on the virtual machine without the need of a specific training.

With the most prevailing technologies of today, like Artificial Intelligence, Machine Learning and Internet of Things more prominent approach to train and monitor products, taking care of its own execution, collaborating to different frameworks, performing self-repairs are made possible. Hence the future is getting unfolded with the emerging DIGITAL TWIN era. The massive data utilized in the field of digital twin is prone to severe security breaches. Thus digital twin technology should be handled with extreme care so as to protect the data. Hence, this chapter identifies the ways and means of collecting, organizing and storing the data in a secured cloud environment. The data is filtered according to the use and priority and pushed into the cloud. It is determined to implement an exclusive algorithm for a secured cloud which would greatly benefit the users and the providers to handle and process it effectively.

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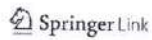
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Abstract

The main goal of Functional Safety is to implement accident avoidance, employee safety and machine safety systems. Emerging technologies like Artificial Intelligence (AI), Advanced Driver Assistance System (ADAS), autonomous driving and autonomous industries needs very high computing devices (like SoC) with functional safety implemented. This puts System on Chip (SoC) in critical path of functional safety due to its complex design and low process safety time. Every System on Chip Intellectual property (SoC IP) used in these market segments should be carefully analyzed and comply with automotive standard ISO26262 and industrial standard IEC61508, respectively. FMEDA is one such kind of analysis to identify design failure modes and its detection ability. Another analysis is dependent failure analysis (DFA) which explains SOC IP's freedom from interference with respect to common cause failures or inactive/disable IPs associated with its design. Multiple authors proposed various ways to carry FMEDA analysis and automation. But best practices for dependent failure analysis and automation are still lacking. In this paper, we proposed a novel approach to perform dependent failure analysis using matrix method in compliance with industry standards. This novel method helps analyst to visualize interaction of IPs and enhances the quality of analysis. A new matrix method is used to execute DFA which gives systematic and attributable analysis.


Keywords

DFA FMEDA ISO IEC SoC IP

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Curved domain discretization with boundary defined by polar equations

Kallur V Vijayakumar¹ and A S Hariprasad²

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kallurvijayakumar@gmail.com


ashariprasad@yahoo.co.in

¹ Department of Mathematics, B.M.S.Institute of Technology, Avalahalli, Bangalore-560064, Karnataka State, India.

² Department of Mathematics, Rajarajeswari College of Engineering, Bengaluru-560074, Karnataka State, India.


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Abstract

A domain discretisation procedure for a planar curved domain with boundary in polar equations is presented. The curved domain is split into curved triangles and then to a fine mesh of linear triangles in the interior and curved triangles or linear triangles near to the boundary. Later by inserting midside nodes to these triangles 6-node triangles obtained further each one into four triangles. The mesh

conformity is preserved by applying similar procedure to every triangle of the domain. This procedure is applied to discretize the star shaped curved domain or cracked convex curved domains into all

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Enhancing Properties of Cured NR/PVA Blends Using Glutaraldehyde as a Crosslinking Agent: Effect of Nano-Clay Loading

Nussana Lehman¹, Ladawan Songtipya², Jobish Johns³ and Ekwipoo Kalkornsurapranee¹

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nus_nal708@hotmail.com

ekwipoo.k@psu.ac.th


¹ Department of Materials Science and Technology, Faculty of Science, Prince of Songkla University, Hat-Yai, Thailand

² Department of Material Product Technology, Faculty of Agro-Industry, Prince of Songkla University, Hat-Yai, Thailand

³ R&D Center, Department of Physics, Rajarajeswari College of Engineering, Bangalore, India

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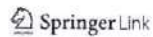
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A novel and inexpensive method to vulcanize natural rubber (NR) was successfully developed and reported in our previous work. NR can be easily vulcanized using glutaraldehyde (GA) at low

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Comprehensive Study of Existing Stream Ciphers

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Abstract

Now a day's internet of things is one of the rapidly growing research field in the information technology domain. Offering security for this ever-augmenting technology is still remaining as the challenging task. Cryptographic techniques are used to authenticate and maintain confidentiality of message data. To maintain the security, system cryptographic algorithms and protocols are very essential. The system is mainly categorized into two groups namely stream cipher and block cipher. Stream cipher has its own advantage over block cipher. In this paper, we reviewed some of the stream ciphers. Selection of finest algorithms for the security of internet of things is very difficult in terms of energy and storage. The study aims to summarize some of the existing stream cipher techniques. This paper gives details on fundamental knowledge about encryption algorithms and its comparison. We also describe the design considerations of stream ciphers.


Keywords

Cryptography Security Stream cipher Block cipher Internet of things Encryption algorithms

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ekwipoo.k@psu.ac.th

¹ Department of Materials Science and Technology, Faculty of Science, Prince of Songkla University, Hat-Yai, Thailand


² Department of Material Product Technology, Faculty of Agro-Industry, Prince of Songkla University, Hat-Yai, Thailand

³ R&D Center, Department of Physics, Rajarajeswari College of Engineering, Bangalore, India

⁴ Police Forensic Science Center 9, Songkhla, Thailand

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Shape memory thermoplastic natural rubber was successfully developed in our laboratory. The main aim of this work is to obtain the suitable recipe and condition for fabrication of shape memory

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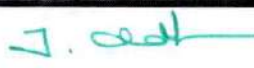
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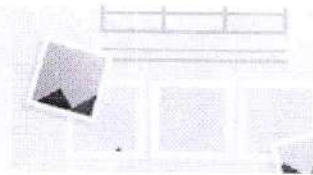
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Service composition is a popular mechanism to orchestrate different and distributed services to produce composite services. Composed services are typically businesscentric, and process-aware. There are a variety of use cases mandating such kinds of service compositions. With services emerging as the most appropriate building block and the unit of deployment, finding, composing, binding and leveraging services turns out to be an important job for software architects and developers. However, service composition is not an easy affair. There are several methods proposed by various researchers and scholars

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the input to this research analysis. Classification techniques K-means clustering algorithm and the decision tree approaches are used in this study and the

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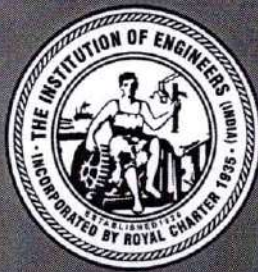
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Retrofits and Upgrades in Power Transmission Systems using HVDC and FACTS Technologies

M. Arunachalam

*Department of Electrical Engineering,
Raja Rajeswari College of Engineering,
Bangalore, Karnataka
E-mail : arunachalammlaiyandi@gmail.com;*

Tayi Krishna Rao

*Former Chief Engineer, Transmission Corporation
of Andhra Pradesh Limited,
Hyderabad, Telengana
tayikrishnarao@gmail.com*

Abstract

The demand for electrical power is increasing at a fast rate. The power transmission systems are becoming more and more complex and it is becoming difficult to construct the new transmission lines in a reasonable time frame as there are constraints like getting the Right of Way (RoW), arranging the funds etc. In this scenario, it is important that more and more existing transmission assets are utilized effectively by improving their system capabilities with much reduced investments.

In this respect, high voltage direct current and flexible ac transmission system technologies can be employed effectively in retrofitting and upgrading the existing assets of the transmission system with marginal investments.

In this paper, some sample projects on which the authors have worked and implemented like the up gradation by converting a 3- ϕ , 230 kV, double circuit ac line in to a dc link providing asynchronous link and also introducing new FACTS devices like controlled shunt reactor in a 400 kV line to replace fixed reactors are discussed.

Introduction

In the present day technological advancements and engineering maturity, the electrical and electronic control equipment are being designed and installed to give service to the owner for a life span of about 40 to 50 years. Whereas, the technological inventions and advancements are taking place at a fast rate. In this respect, the modern technologies like high voltage direct current (HVDC) and flexible ac transmission systems (FACTS) play important roles in making the present day power transmission system assets more and more effective and efficient by enhancing the capabilities and introducing the controllability. HVDC and FACTS are the enabling technologies in enhancing the capabilities of the existing transmission systems with comparatively much lesser investments and faster implementation.

The following approaches are used depending on the requirements.

Converting the existing 3- ϕ ac lines in to a dc bipolar line and thereby enhancing the power transfer capability to a maximum of about 3.5 times the existing capability with the additional benefits of capable of controlling the amount of power transfer at will, providing asynchronous tie, reduced losses and no additional demands for right of way (RoW).

The capabilities of the existing HVDC system can be enhanced by adding series or parallel HVDC substations. The investments are made in a pre-planned staged manner.

In case of power levels considered are of the order of 500 to 1000 MW, FACTS technology can be employed. The cases considered for discussion in this paper are:



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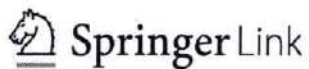
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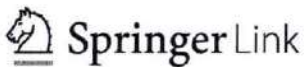
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- A. Prashanthi (1)
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1. VBIT, , Hyderabad, India
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Abstract

An eye situation glaucoma is analysed effectively with the damages occurred in the optic nerve of the eye and it will become for a long period. This becomes proactive in successive stages mainly pressure built up in the optic nerve inside the eye. The current Scenario state that most predominant glaucoma type is of primary open angle glaucoma (OAG) management Glaucoma cannot be identified easily until it becomes more serious in life. Most of the glaucoma type is of primary open angle glaucoma management. An attention is made on one of the eye diseases conditionally, glaucoma which hurts the optic nerve in addition after some time emerges as being severe. The condition is induced internal to the attention with the aid of way of the increase of intraocular stress, the internal tissue layer structure of a retina acts as foreground of a watch that senses light and sends photographs to the mind. This state of affairs will display up salient and might not display in some other time right away. If the disorder is detected early then it prevents field of vision distress. Primary Open Angle Glaucoma Administration is certainly one of the maximum essential as well as most difficult factors of the glaucoma discovery. The numerous findings which depend upon clinical analysis of glaucoma are intraocular pressure, visual view loss and also optical


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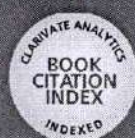
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Carbon Nanotubes Reinforced Natural Rubber Composites

*Apinya Krainoi, Jobish Johns, Ekwipoo Kalkornsurapranee
and Yeampon Nakaramontri*

Abstract

Several advanced methods have been introduced to disperse CNTs in the NR matrix. Various aspects highlighted in this chapter include the mixing processes such as melt mixing and latex mixing methods. As well as, formations of functional groups on the surfaces of CNT using silane coupling agents (i.e., ex-situ and in-situ functionalization). Moreover, hybrid CNT are beneficial to achieve better electrical conductivity of NR/CNT composites. These efforts are aimed to reduce the percolation threshold concentration in the NR composites for application as conducting composites based on electrically insulating rubber matrix. Sensor application is developed based on conducting NR composites. NR composites showed changing of resistivity during elongation termed as piezoresistivity. The most commonly used rubber matrices such as NR, ENR and IR are mixed with a combination of CNT and CB fillers as hybrid filler. The presence of linkages in the ENR composites results in the least loss of conductivity during external strain. It is found that the conductivity becomes stable after 3000 cycles. This is found to be similar to the NR-CNT/CB composite, while a few cycles are needed for IR-CNT/CB owing to the higher filler agglomeration and poor filler-rubber interactions. This is attributed to the polar chemical interactions between ENR and the functional groups on the surfaces of CNT/CB.

Keywords: natural rubber, carbon nanotube, nanocomposites, electrical conductivity, sensor

1. Introduction

Natural rubber (NR) is widely used in various industries owing to its excellent elasticity and mechanical properties. NR has been typically used in many industrial applications including tires, sports articles, sealing materials, medical glove, rubber boots and dairy rubber items [1]. Moreover, application of NR can be more applied by addition of fillers, such as silica, clay, carbon black, and carbon nanotube that is properties of NR can be induced by filler. As NR was converted from insulator material to be used as semi-conductive.

CNT have been widely interested for using as conductive filler in NR composites, due to the sp^2 -hybridized carbon molecules throughout its molecular structure. Its carbon-carbon bond angles can be mechanically distorted reversibly, and core electrons can act as free electrons of the carbon atoms on CNT surfaces. Thus, the

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Author details

Apinya Krainoi¹, Jobish Johns², Ekwipoo Kalkornsurapranee³
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1 Department of Biotechnology, School of Bioresources and Technology, King Mongkut's University of Technology Thonburi, Bangkok, Thailand

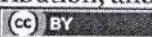
2 Department of Physics, Rajarajeswari College of Engineering, Bangalore, India

3 Department of Materials Science and Technology, Faculty of Science, Prince of Songkla University, Hat-Yai, Thailand

4 Sustainable Polymer and Innovative Composite Materials Research Group, Department of Chemistry, King Mongkut's University of Technology Thonburi, Bangkok, Thailand

*Address all correspondence to: yeampon.nak@kmutt.ac.th

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Prediction and exposure of cancer cells through Walsh hadamard transform and MATLAB R2017a techniques

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Abstract

In the present health scenario, with the advancements in the field of genomic signal processing, signal processing concepts are used for the identification of cancer easier than by using biological experiments. Cancer is caused due to the genetic abnormalities that happen in the human and it is the permanent change of the Deoxyribo nucleic acid sequence in the cells of human. Hence, analysis of the Deoxyribo nucleic acid sequence is done using signal processing techniques because it is simpler and time-efficient method. The various signal processing techniques that can be applied is Fast Fourier Transform, Hilbert Transform, Wavelet Transform, Walsh Hadamard Transform (WHT), Discrete Hartley Transform etc. In this research Walsh Hadamard Transform is adopted for analysis of cancer and normal cells. Also, MATLAB R2017a technique is used for simulations which support bio-informatics toolbox. The developed algorithm is examined for a number of databases existing in NCBI center. From the final results it was found that, the proposed method is proven to be a great advantage for easier prediction and diagnosis of cancer cells.

 PreviousNext 

Keywords

GSP; Cancer Cells; Deoxyribo Nucleic Acid; Prediction; MATLAB R2015a

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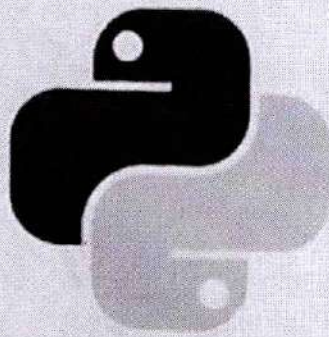
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PYTHON PROGRAMMING AND ITS APPLICATIONS

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DR. R. BALAKRISHNA
PROF. P. RAMKUMAR


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Dr. B. Shadaksharappa, currently Working as Principal, of Sri Sairam College of Engineering (Formerly Shirdi Sai Engineering College), Anekal, Bangalore. He has obtained his under graduation in CSE, Master of Science in Software Systems and PhD in CSE. He has rich academic and research experience for about 27 years. He is actively involved in guiding PhD Candidates in the field of CSE. He has published and presented many research papers in National, International Conferences and reputed Journals. He has many Patents to his credit. He is the advisory committee member for various International conferences and Served as peer reviewer for International journals such as Digital Image Processing, Information Management & Computer Security, Industrial Management & Data Systems and Journal of Theoretical and Applied Electronic Commerce Research, Emerging Technology and applications in Engineering Technology and sciences, Computer Applications in Engineering, Technology and Sciences. He is actively involved in organizing International, National conference, Faculty development programs, workshops and symposiums. He has also served as BOE (CS/IS) member, coordinator and BOE Chairman in VTU and BOS member (CS/IS) in VTU. He is a Member of Governing Council for Sri Sairam College of Engineering, Sri Sairam Pre university College, Sahyadri College of Engineering and Management, Mangalore.



Dr. R. Balakrishna, Working as Dean and Professor in CSE of RajaRajeswari College of Engineering, Bangalore. He is having a about 21 years of Teaching & Research Experience. He is having expertise in the domain of Ad-hoc Networks, Mobile Computing, Computer Networks, and Distributed Operating System, IOT, Machine Learning, AI. He obtained his Ph.D. from Sri Krishnadevaraya University, AP. He is a life member of several organizations and societies like ISTE, IEEE, CSI, IAENG. He had 15 Patent granted and filed Indian and Abroad. He has published 81 papers in refereed International Journals, 36 papers in national and International Conferences. 2 Text books are written. 5 Different Sponsored project are completed from the different agencies like AICTE, VGST, NIST, DST. Under his guidance 7 Research scholars awarded Ph.D. Degree in Computer Science and Engineering. Currently he is guiding 4 PhD scholars at VTU. 1 M.Sc. Engg. By Research in VTU.



Prof. P. Ramkumar Working as an Assistant Professor of Computer Science & Engineering at Sri Sairam College of Engineering, Bangalore. He received his undergraduate degree from Sri Sai Ram Engineering College, Chennai in Computer Science and Engineering in the year 2006. He obtained his Master degree in Computer Science and Engineering at National Engineering College, Kovilpatti in the year 2009. He has experience of 11 years in Engineering education. His research interests include Wireless Sensor Networks, Mobile Ad Hoc Networks, Machine Learning, and Artificial Intelligence. He filed one patent and he has published research papers in various national and international conference and reputed journals.

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Application of Splines for Approximation

^[1] Kallur V Vijayakumar, ^[2] A.S. Hariprasad, ^[3] H. T. Rathod

^[1] Assistant Professor, Department of Mathematics, BMSIT&M. Bengaluru, India

^[2] Professor & Head, Department of Mathematics, RRCE, Bengaluru, India

^[3] Former Professor, Department of Mathematics, Central College, Bengaluru, India

Abstract:

We consider the application of splines to function and integral function approximations, where the integral function refers to the indefinite integral whose lower limit is a constant and upper limit is a variable or function of a variable. Integral function approximation are very useful, one simple and immediate application refers to the construction of a table of integral for example the table of logarithms, normal distribution etc, other applications are possible in the evaluation of multiple integrals over triangular and tetrahedral regions to name a few.

Keywords:

Splines, Approximation

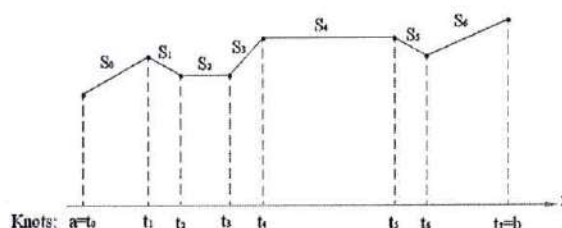
1. INTRODUCTION

A quartic spline that interpolates the first derivatives of the given function at the knots and the second derivatives between them is discussed. A feasible algorithm for the determination of the quartic spline for the second derivative parameter $\lambda = 0, 1/2, 1$ is presented. We consider the application of quartic splines to function and integral function approximations, where the integral function refers to the indefinite integral whose lower limit is a constant and upper limit is a variable or function of a variable. Integral function approximation are very useful in the construction of a table of integral, for example the table of logarithms, normal distribution etc, other applications are possible in the evaluation of multiple integrals over triangular and tetrahedral regions. In this paper, we limit ourselves to simple application that is when the upper limit is a variable. A method based on spline integration to approximate the integral function is presented and compared the performance of quartic spline with standard cubic splines with the aid of graphs by using MATLAB programming.

2. SPLINES & QUARTIC SPLINE INTERPOLANT

The spline is a flexible strip used to produce a smooth curve through a designated set of points. In computer graphics the term spline curve refers any composite curve forms with polynomial sections satisfying specified continuity conditions at the boundary of the pieces. A spline function is a function that consists of polynomial pieces joined together with certain smoothness conditions. A simple example is the polygonal function (or spline of degree 1), whose pieces are linear polynomials joined together to achieve continuity, as in figure below. The points $t_0, t_1, t_2, \dots, t_n$ at which the function changes its character are turned knots in the theory of splines. Thus, the spline function shown in below figure has eight knots.

Figure First-degree spline function



Such a function appears complicated when defined in explicit terms. So we write

$$S(x) = \begin{cases} S_0(x) & x \in [t_0, t_1] \\ S_1(x) & x \in [t_1, t_2] \\ \vdots & \vdots \\ S_{n-1}(x) & x \in [t_{n-1}, t_n] \end{cases}$$

Where $S_i(x) = a_i x + b_i$ because each piece of $S(x)$ is a linear polynomial. Such a function $S(x)$ is piecewise linear.

Spline of degree k

A function S is called a spline of degree k if:

1. The domain of S is an interval $[a, b]$.
2. $S, S', S'', \dots, S^{(k-1)}$ are all continuous functions on $[a, b]$.
3. There are points t_i (called knots of S) such that $a = t_0 < t_1 < t_2 < \dots < t_n = b$ and S is a polynomial of degree at most k on each subinterval $[t_i, t_{i+1}]$.

Higher degree splines are used whenever more smoothness is needed in the approximating function. From the definition of a spline function of degree k , we see that such a function will be continuous and have continuous derivatives $S', S'', \dots, S^{(k-1)}$. If we want the approximating spline to have a continuous m th derivative, a spline of degree at least $m+1$ is selected. Consider a situation in which knots $t_0 < t_1 < t_2 < \dots < t_n$ have been prescribed. Suppose that piecewise polynomial of degree m is to be defined with



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Sri Shakthi Institute of Engineering and Technology,
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Department of Electronics and Communication Engineering,
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Department of Computer Science and Engineering,
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Paschim Vihar, Delhi-110063, India.



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Department of Management Studies,
BVIMR,
Paschim Vihar, Delhi-110063, India.



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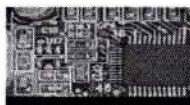
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DEVELOPMENTS: ELECTRONICS
AND COMMUNICATION



Achieving ISO 26262 & IEC 61508 objectives with a common development process

By Gadila Prashanth Reddy, Rangaiah Leburu, Kankanal Rajireddy, P Jayakrishnan, Justin Khoo

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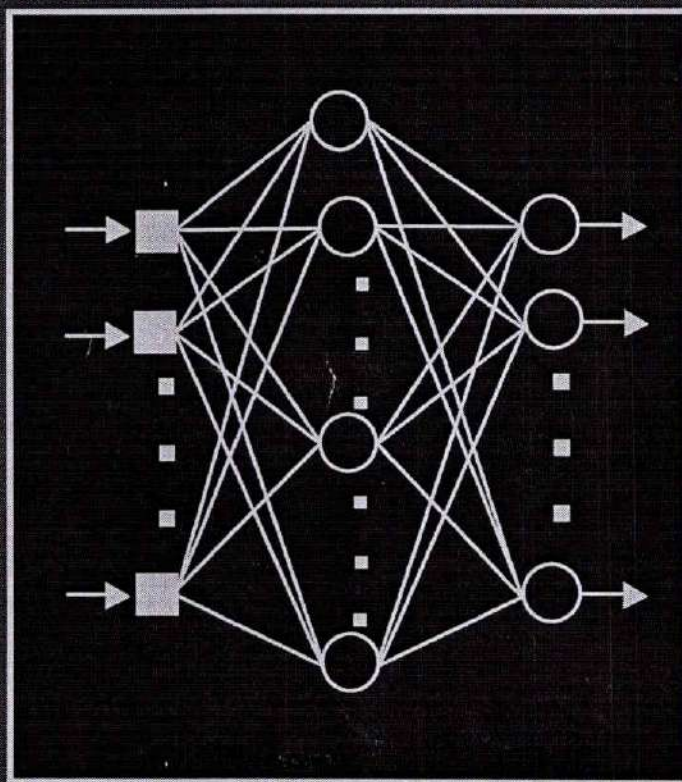
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P. Prashanth
RAJARAJESWARI
COLLEGE OF ENGINEERING
Ramohalli Cross, Bengaluru-74

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*The Digital Twin Paradigm for Smarter Systems
and Environments: The Industry Use Cases*



Edited by
PETHURU RAJ AND PREETHA EVANGELINE

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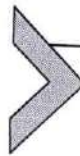
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Impact of cloud security in digital twin

Susila Nagarajan^a, Sruthi Anand^a, Usha Sakthivel^b

^aDepartment of Information Technology, Sri Krishna College of Engineering and Technology, Coimbatore, Tamil Nadu, India

^bDepartment of Computer Science and Engineering, Raja Rajeswari College of Engineering, Bengaluru, Karnataka, India

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Abstract

Digital Twin is a way to virtually represent or model a physical object using the real time data. This innovation sets up a way to deal with industries and organizations to supervise their products, consequently bridging the gap between design and implementations. As the name suggests, "Digital Twin" infers that a reproduction of the product is made in order to have a nearby relationship with the live item. The procedure of computerized twin begins by gathering real time data, processed data, and operational data and performs distinctive investigation which helps in anticipating the future. This additionally enhances the customer experiences by giving a digital feel of their product. The objective behind all these is the job of gathering information and putting them in a place, i.e., the cloud which could store exorbitant data. The user experience gets enhanced by the intervention of digital twin technology which could help in the successful working of the products geographically distributed. The impact of Internet of Things and Cloud Computing lifts up the digital twin.

The information gathered from the sources can be arranged in terms of utilization and prospect to change on a timely basis. These data, as they are stored require proper coordination and a legitimate use.

Digital Twin innovation assumes incredible opportunities in the field of manufacturing, healthcare, smart cities, automobile and so on. The effect of having a digital twin for the product makes it simple for activities and recognize the blemishes, if any happened. This approach can help reduce the workload and furthermore can get trained on the virtual machine without the need of a specific training.

With the most prevailing technologies of today, like Artificial Intelligence, Machine Learning and Internet of Things more prominent approach to train and monitor products, taking care of its own execution, collaborating to different frameworks, performing self-repairs are made possible. Hence the future is getting unfolded with the emerging DIGITAL TWIN era. The massive data utilized in the field of digital twin is prone to severe security breaches. Thus digital twin technology should be handled with extreme care so as to protect the data. Hence, this chapter identifies the ways and means of collecting, organizing and storing the data in a secured cloud environment. The data is filtered according to the use and priority and pushed into the cloud. It is determined to implement an exclusive algorithm for a secured cloud which would greatly benefit the users and the providers to handle and process it effectively.

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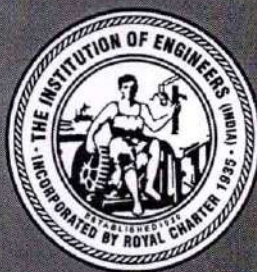
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Principal
RAJARAJESWARI
COLLEGE OF ENGINEERING
Ramohalli Cross, Bengaluru-70



Retrofits and Upgrades in Power Transmission Systems using HVDC and FACTS Technologies

M. Arunachalam

*Department of Electrical Engineering,
Raja Rajeswari College of Engineering,
Bangalore, Karnataka
E-mail : arunachalammlaiyandi@gmail.com;*

Tayi Krishna Rao

*Former Chief Engineer, Transmission Corporation
of Andhra Pradesh Limited,
Hyderabad, Telengana
tayikrishnarao@gmail.com*

Abstract

The demand for electrical power is increasing at a fast rate. The power transmission systems are becoming more and more complex and it is becoming difficult to construct the new transmission lines in a reasonable time frame as there are constraints like getting the Right of Way (RoW), arranging the funds etc. In this scenario, it is important that more and more existing transmission assets are utilized effectively by improving their system capabilities with much reduced investments.

In this respect, high voltage direct current and flexible ac transmission system technologies can be employed effectively in retrofitting and upgrading the existing assets of the transmission system with marginal investments.

In this paper, some sample projects on which the authors have worked and implemented like the up gradation by converting a 3- ϕ , 230 kV, double circuit ac line in to a dc link providing asynchronous link and also introducing new FACTS devices like controlled shunt reactor in a 400 kV line to replace fixed reactors are discussed.

Introduction

In the present day technological advancements and engineering maturity, the electrical and electronic control equipment are being designed and installed to give service to the owner for a life span of about 40 to 50 years. Whereas, the technological inventions and advancements are taking place at a fast rate. In this respect, the modern technologies like high voltage direct current (HVDC) and flexible ac transmission systems (FACTS) play important roles in making the present day power transmission system assets more and more effective and efficient by enhancing the capabilities and introducing the controllability. HVDC and FACTS are the enabling technologies in enhancing the capabilities of the existing transmission systems with comparatively much lesser investments and faster implementation.

The following approaches are used depending on the requirements.

Converting the existing 3- ϕ ac lines in to a dc bipolar line and thereby enhancing the power transfer capability to a maximum of about 3.5 times the existing capability with the additional benefits of capable of controlling the amount of power transfer at will, providing asynchronous tie, reduced losses and no additional demands for right of way (RoW).

The capabilities of the existing HVDC system can be enhanced by adding series or parallel HVDC substations. The investments are made in a pre-planned staged manner.

In case of power levels considered are of the order of 500 to 1000 MW, FACTS technology can be employed. The cases considered for discussion in this paper are: