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1. Dr.R.Balakrishna, “Health Monitoring System based on Internet of Things Devices and AWS”, Indian Patent Application No : 202341032180 , Application Dated :15-05- 2023, Publishing date:16-06-2023.
2. Dr.K.Aravinthan, Dr.R.Balakrishna, “ HSO-BRICK AND PROCESS FOR MANUFACTURING THEREOF”, Indian Patent Application No : 202341030198 , Application Dated :26- 04-2023, Publishing date:26-05-2023.
3. Dr.R.Balakrishna , “ Early Diagnosis and preventive Mechanism for Covid19 to Cardiac Patients”, Indian Patent Application No :202341003004, Application Dated :15-01-2023, Publishing date:20-01-2023

4. **Dr.R.Balakrishna** , “ Early Diagnosis and preventive Mechanism for Covid19 to Cardiac Patients”, Indian Patent Application No :202341003004, Application Dated :15-01-2023, Publishing date:20-01-2023.
5. **Dr.R.Balakrishna** , “Machine Learning Based Approach to detect the Quality of stripped watermelon”, Indian Patent Application No :202241032097, Application Dated: 4/6/2022, Publishing date: 26/8/2022
6. **Dr.R.Balakrishna** , “Developing a Protocol for Link Failure Recovery and Reliable Data Delivery”, Indian Patent Application No:202241023105, Application Date: 19/04/22 Publishing Date: 06/05/2022.
7. **Dr.R.Balakrishna**, “Comparators with power gates for 3-Bit Flash AC Conversion”, Indian Patent Application No:202241021332, Application Date: 9/4/2022 Publication Date: 22/04/22.
8. **Dr.R.Balakrishna**, “ Performance Testing of Web Service Using Replicas”, Indian Patent Application No:202241020069, Application date:2/4/2022 Publication Date: 8/4/2022.
9. **Dr.R.Balakrishna**, “Composite Web Services: A Shapley Value-based game theory application for evaluating workload distribution”, Indian Patent Application No:202241014058, Application Date: 13/03/2022 Publication date: 25/3/2022.
10. **Dr.R.Balakrishna**, “Data Analytics on Television Dataset using Hadoop, Machine Learning” , Indian Patent Application No:202241008806, Application Date: 20/02/2022 Publication date: 4/3/2022.
11. **Dr.R.Balakrishna**, “Smart Air Purifier with IoT enabled technology” , Indian Patent Application No:202241007243, Application Date:10-2-2022, Publication Date: 18-02-2022.
12. **Dr.R.Balakrishna**, “ Block Chain-Based Solutions for Proof of Pick-up of A Physical Asset”, Indian Patent Application No:202241002378, Application Date:14/01/2022, Publication Date:17/01/2022
13. **Dr.R.Balakrishna**, “NOVEL APPROACHES OF IDENTIFICATION OF TANGENT AND NORMAL OF A HYPERBOLA”, Indian Patent Application No:202141057638 Application Date:10/12/2021 Publication date:17/12/2021.
14. **Dr.R.Balakrishna**, “Intelligent- SIM: Multiple Company Mobile Number Installed in Single SIM (Single Sim, Multiple Networks)”, Indian patent Application : 202141051542 A , Application Dated: 10-11-21, Published on: 10/12/2021.

15. **Dr.R.Balakrishna**, “ Big Data and Cloud Bursting Real- Time Intelligent scheduling using Machine Learning”, Indian Patent Application : 202141052902 A, Application Date: 17/11/2021 Publication date:10/12/2021
16. **Dr.R.Balakrishna**, “ Learning Long Term Model Fro Predictions for AIR Pollution Causing Pollutants for Bengaluru Environment” Indian Patent Application No: 202141031585, Dated: 14-07-2021
17. **Dr.R.Balakrishna**, “ Smart Toll Collection Through GPS”, Indian Patent Application No: 202141031297, Date of Application : 18-07-2021. Date:23-7-2021, Page:
18. **Dr.R.Balakrishna**, “A NOVEL METHOD FOR MAGNET ELECTRICITY GENERATOR FIELD” Indian Patent Application No:202141026242,Date of Application: 12/06/2021. Date: 25/6/2021, Page: 28293
19. **Dr.R.Balakrishna**, “IPCM- Movable Satellite: Intelligent Propagation Impairments for Movable Satellite Communication Links at The Microwave Frequencies in Location”, **Australian Patent Application No : 2020102827** , Application Dated: 17/10/2020.
20. **Dr.R.Balakrishna**, Mr.Manohar Madgi, Dr.Rajesh K.S., Dr.Saimadhavi D, “IML- Data Cleaning: INTELLIGENT DATA CLEANING USING MACHINE LEARNING PROGRAMMING”, **Australian Patent Application No : 2020102129**, Application Dated: 27/08/2020.
21. **Dr.R.Balakrishna**, Dr.Venkataramana, Dr. G REDDY BABU, Dr. B. MADHUSUDANA REDDY, Dr. TEJASWINI NIKHIL BHAGWAT “CNIB-Water Management Technology: Water Collection and Notification using IoT –Based Technology”,Indian Patent Application No:202041042657,Date of Application: 01/10/2020.
22. **Dr.R.Balakrishna**, Dr.Sashidhara.C, Dr.Venkataramana, “Design and Develop Low Cast School, Office, Hospital HighTech Buildings”, Indian Patent application No: 202041040400, Application date:18/09/2020.
23. **Dr.R.Balakrishna**, Mr.Thanujkumar,Mr. Hemanthakumar, Mr.Venkatesh, “CNG Kit: INTELLIGENT CNG KIT DESIGN FOR TWO WHEELERS”, Indian Patent application No:202041030475, Application date:17/07/2020.
24. **Dr.R.Balakrishna**, Dr.Piyush Kumar Pareek, Dr . Chitra Shashidar,Dr Ranga Swamy Sirisati, DR. Shoaib kamal, “Social Media Sentiments: Profile based Mapping Social Media Sentiments Using Deep Learning Programming”, Indian Patent application No:202041029812, Application date:14/07/2020.

25. **Dr.R.Balakrishna**, Dr. Prasad A.Y, Dr.Murali G, Mr.Sreepathi V, Mrs.Vasanthamma G, “ICD-Devices: Intelligent clustering Digital Device in an Internet of Things”, Indian Patent Application No: 202041028300 , Issue Date: 3/7/2020 .
26. **Dr.R.Balakrishna**, Dr. Geethanjali N, Dr.N.Guruprasad, Dr.S.Vijayanand, Mr.Shamshekar Patil, “IMFBT-Data Discover: Intelligent Data Discover with one Member of the Family B-Tree Using Machine Learning”, Indian Patent Application No: 202041028298 , Issue Date: 3-7-2020.
27. **Dr.R.Balakrishna**, Dr.Rajesh KS, Mr.K.Venkata Rao, Dr.Sai Madhavi D, Mrs.Chandramma, “ ICS-System: Intelligent Customer Service System Using Artificial Intelligence Programming”, Indian Patent Application No: 202041027322, Issue Date:10-7-2020. Issue no:28/2020 , Page no:112
28. **Dr.R.Balakrishna**, Dr.Anandakumar KS, Dr.Murali G, Mrs.Selvi M, Dr.Piyush Kumar Pareek, “ IRBC-System: Intelligent Rule Based Classification systems to Classify Discrete Sets”, Indian Patent Application No: 202041027658, June 2020,Issue Date: 10-7-2020.Issue no:28/2020, Page No:128.
29. **Dr.R.Balakrishna**,Prashanth Reddy, Dr.Rangaih L, Dr.Madhavi, “AN APPARATUS FOR DETECTION OF GAS LEAKAGE”, Indian Patent Application No: **201941003789**, **Issue Date: 18-19/6152**.
30. **DR.R.BALAKRISHNA**, SIVAPRAKASH CHOKKALAINGAM, DR. B.SHADAKSHARAPPA, “DOMESTIC BIRDSâ€™TM PROTECTIVE SYSTEM”, Indian Patent Application No: No.201941001507 A, January 2019. Issue Date:18-01-2019. Issue no:3/2019.

Journal Publications

1. Dr R.Balakrishna published a paper Titled “RATM: Reinforcement Learning for Co-Optimized CPU Scheduling and NUMA Memory Management in Compiler Design in IEEE Explore in the year 2026
2. Dr R.Balakrishna published a paper Titled” Plant and Soil health Analyzer: An AI-Driven Web-Based Agricultural Decision Support System in International Journal of recent Trends in Multidisciplinary Research in the year 2025
3. Dr R.Balakrishna published a paper Titled” Enhancing the Resilience of Critical Infrastructure through Advanced Cybersecurity Strategies Using A Conceptual Comprehensive Approach to Safeguard the Power Systems in The 7th IEEE International Conference on Information Systems and Computer Networks (ISCON 2025), IEEE Conference Record No: 65210
4. Dr R.Balakrishna published a paper Titled” Gynaecological Disease Diagnosis Expert System Gyneeexpert “ in Indian Journal of Computer Science and Technology in the year 2025

5. Dr R.Balakrishna published a paper Titled” Gynaecological Disease Diagnosis Expert System Gyneeexpert “ in Indian Journal of Computer Science and Technology in the year 2025
6. Dr R.Balakrishna published a paper Titled” Comprehensive Solution and Implementation of an 4Axis Selective Compliance Assembly Robotic Arm [SCARA] for Automated Pick-&-Place of Integrated Circuit Components onto Printed in 2025 2nd Asia Pacific Conference on Innovation in Technology (APCIT) in the year 2025
7. Dr R.Balakrishna published a paper Titled” Design and implementation of a hyper-chaotic confusion–diffusion framework for highly secure image and video transmission integrated with massive MIMO and small-cell-enabled 5G “ in Journal of Basic Sciences & Engineering in the year 2025
8. Dr R.Balakrishna published a paper Titled” Artificial Intelligence in Personalized Education: Revolutionizing Learning Paths and Student Engagement “ in IGI Global Scientific Publishing in the year 2025
9. Dr R.Balakrishna published a paper Titled” Artificial Intelligence in Personalized Education: Revolutionizing Learning Paths and Student Engagement “ in IGI Global Scientific Publishing in the year 2025
10. Dr R.Balakrishna published a paper Titled” SCADA – Data Security : DDoS Attack Analysis Using Time Series & its Application in the Communication Sector using Non-Linear Methods in Communications on Applied Nonlinear Analysis in the year 2025
11. Kushal Kumar B.N., **Dr. Balakrishna R.**, Dr. M.V. Panduranga Rao, “An ensemble cognitive learning-based intrusion detection system for secure IoT environments”, Google Scholar Indexed, Scopus Indexed Q3 Journal Yingyong Jichu yu Gongcheng Kexue Xuebao - Basic Science & Engineering, JBSE, Vol. 21, No. 1, H-Index of 21, ISSN: 1005-0930, Citescore 2024 1.8, pp. 1039-1049, Dec. 2024,
DOI: <https://doie.org/10.0113/Jbse.2025967844>
<https://yjgkx.org/article/view/97>
<https://yjgkx.org/uploads/archives/0b7e4ba3-0593-499f-b8fc-8112539ec737.pdf>
<https://www.scimagojr.com/journalsearch.php?q=94558&tip=sid&clean=0>
<https://www.scopus.com/sourceid/94558>
12. Swapana Y., Dr. Kamalraj T., **Dr. Balakrishna R.** “A comprehensive review of energy-efficient algorithms for wireless sensor networks (WSN’S) - Advances in cluster-based and optimization techniques”, Google Scholar Indexed, Scopus Indexed Q3 Journal Yingyong Jichu yu Gongcheng Kexue Xuebao - Basic Science & Engineering, JBSE, Vol. 21, No. 1, H-Index of 21, ISSN: 1005-0930, Citescore 2024 1.8, pp. 1029-1038, Dec. 2024,
DOI: <https://doie.org/10.0113/Jbse.2025939097>

<https://yjkx.org/article/view/96>

<https://yjkx.org/uploads/archives/e1bad4da-52f9-4e2d-951b-db2441aa335c.pdf>

<https://www.scimagojr.com/journalsearch.php?q=94558&tip=sid&clean=0>

<https://www.scopus.com/sourceid/94558>

13. **Dr.R.Balakrishna**, Vinay B “A Secure and Efficient Framework for IOT Networks for IOT Networks Using Block Chain- Enabled Key Management Context Aware Routing and Light weight Cryptography” Scopus Indexed Q3 Journal, Yingyong Jichu yu Gongcheng Kexue Xuebao / Journal of Basic Science and Engineering JBSCE, Vol. 21, No. 1, Indexed in Scopus, Google Scholar, DoI Cross Ref., Cite Score 2023 - 1.6, H Index – 21, ISSN: 1005-0930, SJR 2023 - 0.276, SNIP 2023 - 0.555, ISSN: 1005-0930

DOI: <https://doie.org/10.0113/Jbse.2025629681>,

<https://yjkx.org/article/view/95>

<https://vjgkx.org/uploads/archives/bb7568f6-b3cb-42cd-8e41-5bc70d111a99.pdf>

<https://www.scimagojr.com/journalsearch.php?q=94558&tip=sid&clean=0>

<https://www.scopus.com/sourceid/94558>

14. **Dr. R. Balakrishna**, Dr. J.V. Muruga Lal Jeyan, “Development of a Hybrid SCADA Model Integrating Data Analytics and TSA’s for Effective Linear & Non-Linear Loads in Micro & Nano-grids using nano-technological concept”, Scopus Indexed Q4 Journal, Journal of Nanotechnology Perceptions, ISSN : 1660-6795, E-ISSN : 2235-2074, Vol. 20, S16, Cite Score 2023 – 0.4, SNIP 2023 - 0.064, SJR 2023 – 0.11, Indexed in Inspec (Physics Abstracts), Chemical Abstracts, Scopus, Scimago, Resurchify, SCI Journal, Academic Accelerator, ORES, ScienceGate, SciSpace, Jouroscopepp, 48-72, H-Index 10, Dec. 2024.

Paper : <https://nano-ntp.com/index.php/nano/article/view/3612/2709>

Scopus: <https://www.scopus.com/sourceid/11700154613>

Scimago: <https://www.scimagojr.com/journalsearch.php?q=11700154613&tip=sid>

15. **Dr. R. Balakrishna**, Dr. J.V. Muruga Lal Jeyan, “SCADA – Data Security : DDoS Attack Analysis Using Time Series & its Application in the Communication Sector using Non-Linear Methods”, International Journal of Communications on Applied Nonlinear Analysis IJCANA, A Quarterly Q4 Scopus Indexed Journal, e-ISSN : 1074-133X, SNIP 2023, 0.123, H-Index of 16, SJR 2023 – 0.13, Cite Score year 2023 – 0.3, Vol. 32, Issue No. 3s, pp. 295-312, 2025.

Scopus <https://www.scopus.com/sourceid/11100153313> . **Scimago** : <https://www.scimagojr.com/journalsearch.php?q=11100153313&tip=sid&exact=no>

Abstract <https://internationalpubls.com/index.php/cana/article/view/2644>

Paper <https://internationalpubls.com/index.php/cana/article/view/2644/1580>

16. **R. Balakrishna**, J. V. Muruga Lal Jeyan, “SCADA – Need for Data Analytics & Time Series Analysis for Effective Load Forecasting” Scopus Indexed Q4 Journal of Electrical Systems, Indexed in Scopus, Scimago, ProQuest, Engineering Village, DOAJ, ISI Thomson Reuters, ISSN : 1112-5209, SJR 2023 - 0.167, SNIP 2023 - 0.325, Cite Score 2023 – 0.11, H Index – 21, Vol. 20, Issue No. 11s, pp. 552-560, 2024.

Abstract : <https://journal.esrgroups.org/jes/article/view/7241>

Paper <https://journal.esrgroups.org/jes/article/view/7241/4988>

Scopus <https://www.scopus.com/sourceid/19700186890>

Scimago :<https://www.scimagojr.com/journalsearch.php?q=19700186890&tip=sid&clean=0>

17. **R. Balakrishna**, J. V. Muruga Lal Jeyan, “A Hybrid Model of SCADA Development with the need for Data Analytics & Time Series Analysis for Effective Load Forecasting, Data Security (DDoS) Attack Analysis & its Application in the Science & Engineering Applications”, Scopus Indexed Q3 Journal, Yingyong Jichu yu Gongcheng Kexue Xuebao / Journal of Basic Science and Engineering JBSCE, Vol. 21, No. 1, Indexed in Scopus, Google Scholar, DoI Cross Ref., Cite Score 2023 - 1.6, H Index – 21, ISSN: 1005-0930, SJR 2023 - 0.276, SNIP 2023 - 0.555, ISSN: 1005-0930, DoI 10.1127/Jbse.2024847927, pp. 850 – 870, 2024

DOI <https://doie.org/10.1127/Jbse.2024847927>

Scimago <https://www.scimagojr.com/journalsearch.php?q=94558&tip=sid&clean=0>

Scopus <https://www.scopus.com/sourceid/94558>

Abstract <https://yjgkx.org/article/view/81>

18. B N Kushal Kumar, **Dr. R Balakrishna**, M.V Panduranga Rao, P. S. Ashok Kumar, ” Comprehensive Insights into Machine Learning for Intrusion Detection Systems in IoT and its Datasets”, 2024 4th International Conference on Data Engineering and Communication Systems (ICDECS) , <https://ieeexplore.ieee.org/document/10502938/authors#authors>
19. Kushal Kumar B N, Dr.Balakrishna R,Dr.M V Panduranga Rao. (2022). Securing IoT: An Innovative Framework for Intrusion Detection Using an Ensemble Cognitive Learning Model. International Journal of Communication Networks and Information Security (IJCNIS), 14(3), 662–671. Retrieved from <https://www.ijcnis.org/index.php/ijcnis/article/view/7846>.
20. Vinay B, Dr. Balakrishna R, Dr. M V Panduranga Rao. (2022). Context-Aware Secure Routing Framework for Enhanced IoT User Interface and Fault Tolerance. International Journal of Communication Networks and Information Security (IJCNIS), 14(2), 400–415. Retrieved from <https://www.ijcnis.org/index.php/ijcnis/article/view/7797>

21. Dr. Bharth J, **Dr.R.Balakrishna** ,“An Efficient Frame Work For Tracking Partial Face Recognition Using Ensemble Deep Learning Technique” , Journal Of Contemporary Issues In Business And Government. Accepted.
22. Kushal Kumar B N, **Dr.R.Balakrishna**, “Comprehensive Insights into Machine Learning for Intrusion Detection Systems in IoT and its Datasets”, 4th IEEE International Conference on Data Engineering and Communication Systems (ICDECS), 22-23 March 2024, at RNSIT.
23. Vinay Kumar K, **Dr.R.Balakrishna**, “ Time series Data Analysis of Smart Grid & Advanced metering Infrastructure : Utility Perspective”, Journal of Neuroquantology / June 2021 , Vol: 19, Issue:06, Page:310-316, DOI:10.48047/NQ.2021.19.6.NQ21103
24. Vasanthamma G, **Dr.R.Balakrishna**, “CEQAR: Cluster Based Energy Efficient QOS Aware Routing Scheme for WSN using Hybrid Metaheuristic Technique”, Journal of Neuroquantology / November 2022 , Vol: 20, Issue:19, Page:3649-3669, DOI:10.48047/NQ.2022.20.19.NQ99329
25. Vasanthamma G, **Dr.R.Balakrishna**, “OSTAR: An Optimal Trusted Security Aware Routing Techniques for Wireless Sensor Networks Using Efficient Clustering Approach”, Journal of Data Acquisition and Processing Vol. 38 (2) 2023, ISSN: 1004-9037 <https://sjcjycl.cn/> DOI: 10.5281/zenodo.7766303
26. Vasanthamma G, **Dr.R.Balakrishna**, “ Energy and Lifetime Efficient Routing Technique for Wireless Sensor Networks using optimal Clustering”, Journal of Harbin Engineering University, Vol 44 No. 7 July 2023, Page No:2225- 2235. ISSN: 1006-7043.<https://harbinengineeringjournal.com/index.php/journal/article/view/776>
27. Bharath J, **Dr.R.Balakrishna**, “ILLUMINATION FACE RECOGNITION USING DEEP LEARNING TECHNIQUES”, Journal of Data Acquisition and Processing Vol. 38 (2) 2023, ISSN: 1004-9037 <https://sjcjycl.cn/> DOI: 10.5281/zenodo.7766343.
28. Shashidhar S, **Dr.R.Balaksihna**, “AN EFFICIENT FRAMEWORK FOR FACE OCCLUSION RECOGNITION USING DEEP CONVOLUTIONAL NEURAL NETWORK TECHNIQUE”, Journal of Data Acquisition and Processing Vol. 38 (2) 2023, ISSN: 1004-9037 <https://sjcjycl.cn/> DOI: 10.5281/zenodo.776907
29. Ramkumar P, **Dr.R.Balakrishna**, “ Possibilities of prediction of covid 19 using K-Nearest Neighbour Algorithm”, 2022 2nd International Conference on Technological Advancements in Computational Sciences (ICTACS), DOI: 10.1109/ICTACS56270.2022.9988613, IEEE Xplore: 28 December 2022.

30. Shashidhar S, **Dr.R.Balaksihna**, “ A NOVEL APPROACH FOR IDENTIFICATION OF FACIAL OCCLUSION” wjert, 2022, Vol. 8, Issue 9,75-84. SJIF Impact Factor: 5.924.
31. Bharath J, **Dr.R.Balakrishna**, “ A NOVEL FACE RECOGNITION APPROACH BASED ON MACHINE LEARNING TECHNIQUES”, wjert, 2022, Vol. 8, Issue 9, 67-74. SJIF Impact Factor: 5.924.
32. Savitha S, Monoo John, **Dr.Balakrishna R** and Nataraju C1, “ The Impact of Academic Technology on Sustainable Academic operations-a Review and Conceptualization” , ECS Transactions, Volume 107, Number 1, April 2022, 2022 - IOPscience, <https://doi.org/10.1149/10701.16175ecst>.
33. **Dr.R.Balaksihna**, Venkatesh A, “Implementing Node State Information based Clustering for WSN”, Journal of Xi’an Shiyou University, Natural Science Edition, Volume 8, Issues 13, ISSN: 1673-064x, Scopus Indexed on Present Year (xisdjxsu.asia). Page No: 69-79.
34. **Dr. R.Balaksihna**, Dr.Rajesh KS, Dr.Shamshekar Patil, “Text Cipher Multi-Sharing Control for Big Data Storage with Privacy-Preserving Cipher Text”, World Journal of Engineering Research and Technology, wjert, 2022, Vol. 8, Issue 3, .ISSN:2454-695X ,SJIF Impact Factor: 5.924.
35. **Dr.R.Balakrishna**, Dr.Anandkumar KS, Dr.Prsad AY , “Outcome-Based Education: A Case Study on Course Outcomes, Program Outcomes and Attainment for Big data Analytics Course”, Journal of Engineering Education Transformations , Volume 35 , No. 2 , October 2021 , ISSN 2349-2473, eISSN 2394-1707.
36. **Dr.R.Balakrishna**, Selvi M, “VAMPIRE BITES HINDER WIRELESS AD HOC SENSOR NETWORKS”, World Journal of Engineering Research and Technology, wjert, 2021, Vol. 7, Issue 5, 337-342.ISSN:2454-695X ,SJIF Impact Factor: 5.924
37. **Dr.R.Balakrishna**, Dr.Shamshekar Patil, Dr.S.Vijayanand, “ENERGY LOW MOBILITY ROUTING PROTOCOL PERFORMANCE EVALUATION (ELMRPP)”, Vidyabharati International Interdisciplinary Research Journal, Special Issue on Recent Research Trends in Management, Science and Technology (August 2021) 1068 ISSN: 2319-4979.
38. **Dr.R.Balakrishna**, Dr.Anandkumar KS, Dr.Prasad A Y, “ IoT Based E-Commerce getting a Secure Connection using Block Chain Methodology”, ACS Journal for Science and Engineering, E-ISSN:2582-9610, Vol:1, Issue:1, March 2021, Page:24-30.

39. **Dr.R.Balakrishna**, Dr.Anandkumar KS, Dr.Prasad A Y, “DEVELOPEMENT OF INTEGRATED IOT APPLICATION ON VEHICLE TRAKING, TRAFFIC MONITORING AND VEHICLE THEFT”, International Journal of Future Generation Communication and Networking (IJFGCN), ISSN: 2233-7857(Print); 2207-9645(Online), NADIA, (2020), Vol. 13, No. 4, pp. 1-10. (Web of Science)..<http://dx.doi.org/10.33832/ijfgcn.2020.13.4.01>
40. **Dr.R.Balakrishna**, Selvi M, “COMPARATIVE ANALYSIS OF NAMP, SPREAD AND ENAMP ARE ROUTING PROTOCOLS IN MOBILE ADHOC NETWROK”, Sambodhi (UGC Care Journal)Vol-43, No.-02 (V) July-September (2020)ISSN: 2249-6661,Page:132-138.
41. **Dr.R.Balakrishna**, Dr.Prasad A Y, “EFFICIENT PROTOCOL IDENTIFICATION OF MANET CLUSTER HEAD FORMATION AND SELECTION ROUTING FOR WIRELESS SENSOR NETWORKS”, **Journal of Critical Review**, ISSN- 2394-5125,VOL 7, ISSUE 13, 2020, **Page:4570-4575**
42. Mr.Murali G, Dr.Vinayaka Murthy, **Dr. Balakrishna R**, Dr.UdayaRani V, “Evaluation of Energy Performance Routing Protocol (EPRP) with Low Mobility in MANET”, submitted to **Inder Science Publishers**.
43. **Selvi M, Dr.R.Balakrishna** , “An Enhanced Performance Measurement in Spread”, International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8, Issue- 9S2, July 2019, Retrieval Number: I11690789S219/19©BEIESP DOI : 10.35940/ijitee.I1169.0789S219
44. Prasad A.Y,**DR R. Balakrishna** , Optimized Energy Efficient Routing Protocol for MANET using Fuzzy score based clustering algorithm, International Journal of Innovative Technology and Exploring Engineering’ ISSN 2278-3075 at Volume-8 Issue-7, May 2019 (SCOPUS Indexed Journal).
45. Prasad A.Y,**DR R. Balakrishna** , Energy Efficient and Secured Clustering Algorithm using Fuzzy Logic with K-means Method in MANET, Indian Journal of Science and Technology, Vol 12(19), DOI: 10.17485/ijst/2019/v12i19/144195, May 2019 (SCOPUS Indexed Journal)issn: 0974-6846.
46. Prasad A.Y, **Dr R. Balakrishna** , Implementation of optimal solution for network lifetime and energy consumption metrics using improved energy efficient LEACH protocol in MANET, International Journal of Telecommunication, Computing, Electronics and Control, ISSN: 1693-6930’ at Vol.17, No.4, August 2019 (SCOPUS Indexed Journal).

47. Prasad A.Y, **Dr R. Balakrishna**, “A Novel Approach Secured and Energy Efficient Clustering Algorithm Using Fuzzy Genetic Optimized Protocol for MANET” International Journal of Advanced Science and Technology (IJAST) ISSN:2005-4238E-ISSN:2207-6360 Vol-127-June-2019 (SCOPUS Indexed Journal).
48. Prasad A.Y, **Dr R. Balakrishna** , A generic algorithmic protocol approaches to improve network life time and energy efficient using combined genetic algorithm with simulated annealing in MANET” International Journal of Intelligent Unmanned Systems. (SCOPUS Indexed Journal). iSSN: 2049-6427, Page:23-42,vol:8, <https://doi.org/10.1108/IJIUS-02-2019-0011>
49. Selvi M, **Dr. R. Balakrishna**, “ A New method to recover the link failure and reliable data delivery”, International Journal of research and Technology, Issn no:2278-0181, vol:8, Issue:01, Jan 2019, Impact factor:
50. Selvi M, **Dr. R. Balakrishna** , “ PERFORMANCE MEASUREMENT IN ENAMP”, International Journal of Research and Analytical Reviews (IJRAR) www.ijrar.org, Issn: E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 06, Issue 1 , Jan 2019, Impact Facotor:
51. Prasad A.Y , **Dr. R. Balakrishna** , An Optimized Solution For Measures Of Network LifeTime And Energy Consumption Using Improved Energy Efficient Leach Protocol InMANET, Global Journal Of engineering Science And Researches, Vol. 5 Issues. 8- August, 2018.Vol.17, No.4, August 2019, pp.1758~1766,ISSN: 1693-6930,DOI: 10.12928/TELKOMNIKA.v17i4.12004.
52. Prasad A.Y , **Dr R. Balakrishna** , Prolong the lifetime of the MANET based on Genetic algorithm and simulated annealing optimization, International Journal of Research in Electronics and Computer Engineering (IJRECE) Vol. 6 Issues. 3- September, 2018.ISSN: 2393-9028 (PRINT) |ISSN: 2348-2281 (ONLINE).Page:2252
53. K. S. Ananda Kumar, **Dr.R. Balakrishna**, "Implementation of Itree-MAC Protocol for Effective Energy Consumption in Wireless Sensor Networks", International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), ISSN : 2456-3307, Volume 3, Issue 6, pp.113-117, July-August.2018.
54. Kamal Raj T, **Dr.R.Balakrishna**, “ Development of Cluster Routing protocol in Homogeneous networks for Randomly Deployed MSN in WSNs”, International Journal of Applied Engineering Research, ISSN 0973-4562 Volume 12, Number 13 (2017) pp. 3702-3707.

55. Kamal Raj T, **Dr.R.Balakrishna**, “Enhanced cost-aware Secure Routing Protocol Design for Wireless Sensor Network”, Jour of Adv Research in Dynamical & Control Systems, Vol. 10, 10-Special Issue, 2018, pp. (64-69), ISSN 1943-023X.
56. K S Ananda Kumar, **Dr.R Balakrishna**; “Evaluation of Energy Consumption Using Receiver–Centric MAC Protocol in Wireless Sensor Networks” in International Journal of Electrical and Computer Engineering, Vol 8, No 1, Feb 2018, IJECE, ISSN: 2088-8708. (SCOPUS Indexed Journal).
57. K S Ananda Kumar, **Dr.R Balakrishna**; “Performance Analysis of Reliability and Throughput Using an Improved Receiver – Centric MAC Protocol and Itree-MAC Protocol in Wireless Sensor Networks ” Springer International Conference on Cognitive Informatics and Soft Computing (CISC-2017) 20th – 21st Dec 2017 at VBIT, Hyderabad. (SPRINGER-Advances in Intelligent Systems and Computing (AISC)).
58. K S Ananda Kumar, **Dr.R Balakrishna**; “An Improved Receiver – Centric MAC Protocol for Effective Power Management In Wireless Sensor Networks”, International Journal of Engineering Science and Technology (IJEST), ISSN: 0975-5462 Vol. 9 No.09 Sep 2017, p 892-896. (UGC Approved Journal).
59. K S Ananda Kumar, **Dr.R Balakrishna**; “Comparative Analysis of Delay and Throughput using IEEE 802.11 and Receiver Centric-MAC Protocol in Wireless Sensor Networks” in IEEE International conference on Innovations in Power and Advanced Computing Technologies, (I-PACT 2017), 21st -22nd April 2017 at VIT University, Vellore. (IEEE Xplore Digital Library).
60. K.VenkatRao, **Dr.R.Balakrishna**, “Reliability Test of Questionnaire for SME’s”, ITSI Transactions on Electrical and Electronics Engineering (ITSI-TEEE), ISSN (PRINT) : 2320 – 8945, Volume -5, Issue -3-4, 2017, Page NO:35-41.
61. K.VenkatRao, **Dr.R.Balakrishna**,”Entropy Analysis of Variables of Quality in SME’s”, ITSI Transactions on Electrical and Electronics Engineering (ITSI-TEEE), ISSN (PRINT) : 2320 – 8945, Volume -5, Issue -1-2, 2017., Page No:35-41.
62. K.VenkatRao, **Dr.R.Balakrishna**, “ Understanding Quality Practices in SME’s”, International Journal on Advanced Electrical and Computer Engineering (IJAECE), ISSN(Online): 2349-9338, ISSN(Print): 2349-932X Volume -5, Issue -1, 2018. Page: 45-51.
63. K.VenkatRao, **Dr.R.Balakrishna**, “Analysing Practices in SME’s using Analysis of Variances”, International Journal on Advanced Electrical and Computer Engineering (IJAECE), ISSN(Online): 2349-9338, ISSN(Print): 2349-932X Volume -4, Issue -2, 2017, Page No:28-32.

64. Selvi M, **Dr.R.Balakrishna**, “ Implementation of Itree-MAC Protocol for effective Energy consumption in wsn”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Vol:3, Issue:6 July-Aug 2018, ISSN: 2456-3307.
65. **Dr.R.Balakrishna**, Prasad A.Y, Monika R, Megha S, “Depulication on Scrambled Enormous Information in cloud” , International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), Vol:6, Issuse:5, May2017, Page:709-715. ISSN: 2278 – 1323 ,Impact Factor:5.2.
66. **Dr.R.Balakrishna**, Prasad A.Y, K.B.Kruthika, Sushma, “Remote Storage of Data on Cloud”, International Journal of Advanced Research and Innovative Ideas in Education, Vol: 2, Issue:52017, May Page:278-283. ISSN: 2395 -4396 Impact Factor: 4.06.
67. K.S.AnandKumar ,**Dr.R.Balakrishna**,”An Improved Receiver –Centeric MAC Protocol for Effecitve power Management in WSN”, International Journal of Engineering Science and Techonology(IJEST), ISSN:0975-5462 , Vol:9, Issue: 9 Sept 2017.Page: 892-896. Impact Factor:3.14.
68. K.S.AnandKumar ,**Dr.R.Balakrishna**, “A New approach of Secure Aggregate Signature Scheme for Wireless Sensor Networks”, International Journal of Scientific Engineering and Technology ISSN : 2277-1581 Volume No. 6, Issue No. 9, PP : 327-331, 1 Sept. 2017.Impact Factor:1.632.
69. Mr. Murali G, Mrs. Arpitha S, Dr. Vinayak Murthy, **Dr. Balakrishna R**, “Energy Efficient Approach for Real-Time Message Transfer through MC-WSN Design”, International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Volume 6, Issue 3,Page No. 69-73, May 2017, ISSN: 2278-6856, Impact factor:7.143
70. Venkatesh A, **Dr.Balaksihna R** “Comparison Study of various WSN Routing Protocols”, International journal of Advanced Technology and in Engineering and Science, Vol No:5, Issue no: 7, July 2017, ISSN:2348-7550,www.ijates.com , Page No:27-30.
71. Mr. Murali G, Mrs. Arpitha S, Dr. Vinayak Murthy, **Dr. Balakrishna R**,”Implementation of Extension throughput Delay Guaranteed Routing for Reliability in MANET of Wireless Networks”, International Journal of Application or Innovation in Engineering & Management (IJAEM) , Vol:5, Issue:11 Nov 2016, ISSN:2319-4847, Page: 1-8. Impact Factor: 7.319
72. Selvi M, **Dr.R.Balakrishna**, “A Survey of Routing Protocols in Mobile Adhoc Networks”,Associated Asia Research Foundation, Page: , Vol:4 Issue:7 , Impact Factor: 5.79.July 2016.ISSN: 2321-1717.

73. Mr. Murali G, Ms. Divyashree B.N, **Dr. Balakrishna R**, DrM. Vinayaka Murthy “Enhanced AODV with Secrete Key Sharing to Improve Security and Energy Efficiency in MANETs” International Journal of Advanced Networking Applications, Special Issue Page No. 564-568 May’16. Impact Factor:3.462.
74. Vinay Kumar K, **Dr. Balakrishna R**, “Demand Response in Smart Grid: Key Implementation Challenges”, International Journal of Innovative Research in Computer and Communication Engineering, page: 11990-11996 Vol. 4, Issue 6, June 2016, Impact Factor: 6.9.
75. K.S.AnandKumar ,**Dr.R.Balakrishna**, “Development of Energy-Efficient and Data Collection Protocol for Heterogeneous Wireless Sensor Networks”, ITSI Transactions on Electrical and Electronics Engineering (ITSI-TEEE), ISSN (PRINT) : 2320 – 8945, Volume -4, Issue -2, May2016. Impact Factor:1.9.
76. T.N.Anithaand**Dr. Balakrishna.R**, “Content Based Load Balancing Using Web Clusters & Service Rankings”, Artificial Intelligence and Evolutionary Computations in Engineering Systems, Vol: 394, Issue: 1 , Page No: 1-10 ,Feb 2016.ISBN: 978-81-322-2654-3 (Print) 978-81-322-2656-7 (Online)**Springer Journal**.
77. K. Venkata Rao, **R. Balakrishna**, “Data Mining for Healthy Tomorrow with the Implementation of Software Project Management Technique” ,Artificial Intelligence and Evolutionary Computations in Engineering Systems, Vol: 394, Issue: 1 , Page No: 345-356 ,Feb 2016. ISBN: 978-81-322-2654-3 (Print) 978-81-322-2656-7 (Online) **Springer Journal**..
78. Selvi M, **Dr.R.Balakrishna**, “ENHANCED FEATURES OF NEIGHBOR AWARE MULTICAST ROUTING Protocol”, International Journal of Advanced Research in Computer and Communication Engineering, Vol:5, Issue :4 , Page No: ISSN: 2319 5940, Jan 2016.Impact Factor :4.87.
79. Murlai G, **Dr.R.Balakrishna**, “ Enhancing the Power Consumption in Sensor Network using EEPAR with low Mobility”, International Journal of Applied Engineering Research, Vol:10 Issue:86 , May 2015. Page:46-53. Impact Factor: 3.2. issn:0973-4562
80. K.S.AnandKumar ,**Dr.R.Balakrishna**, “Study on Energy Efficient Routing Protocols in Wireless Sensor Networks”, International Journal of Advanced Research in Computer Science and Software Engineering, Vol:5, Issue:11, Page:702-705,ISSN:2277-128X, NOV 2015, Impact Factor:10.236.

81. Vinay Kumar, **Dr.R.Balakrishna**, “ Smart Grid: Advanced Metering Infrastructure(AMI) & Distribution Management System(DMS)”, International Journal of Computer Science and Engineering, Vol : 3 , Issue:11, Page No: 19-23, ISSN:2347-2693, Nov 2015.Impact Factor:3.8.
82. Rajesh K.S, **Dr.R.Balakrishna**, “Minimize the data packet Dropping by malicious nodes in MANET using FSR Algorithm”,International Journal of Applied Engineering Research, Vol:10 Issue: 44 , Page No:31462-31468,2015, ISSN: 0973-4562.Impact Factor: 3.2
83. T.N.Anithaand**Dr. Balakrishna.R**, “Request Routing Mechanism for similarity services based Cluster web servers”, International Journal of Advanced Technology in Engineering and science, Vol:3, Issue: 2, Feb 2015, Page: 139-144. Impact Factor:2.87, ISSN:2348-7550.
84. T.N.Anitha, **Dr. Balakrishna.R.**, “Service Organization on cloud Clusters Using Virtualization”, International Journal of advanced Research in Computer and Communication Engineering(IJARCCCE), Vol:4, Issue: 1, June 2016, Page:1-4. Impact Factor:5.97. issn:23195950
85. K.Venkat Rao, **Dr.R.Balakrishna**, “ Study on Six Sigma Approach to improve the quality of process outputs in business process in small and medium level Software Firms”,International Journal of Applied Engineering Research, Vol:10 Issue: 44 , Page No:31532-31538, 2015, ISSN: 0973-4562. Impact Factor: 3.2
86. T.N.Anithaand**Dr. Balakrishna.R**, “Service Delivery Mechanism on Content Based Cluster Using Similarity of Services”, Transaction on Networks and Communications, Volume 3, Issue 2, Page No: 25-36. ISSN: 2054-7420. http://scholarpublishing.org/Repository/TNC-15-1089_c.pdf. Impact factor:
87. T.N.Anithaand**Dr.Balakrishna.R**, “LoadBalancing – Server Availability ”, ISSUE. International Journal of Computer Engineering & Technology (IJCET).Volume:5,Issue:8,Pages:71-79. 2014. ISSN:0976 – 6367.Impact Factor: 7.8.
88. T.N.Anitha ,**Dr.Balakrishna R**, “ A Study on Load Balancing Policies used on Distributed Clusters Services”, International Journal of Research in Information Technology, Vol:2, Issue:2, February 2014. ISSN: 2001-5569.Impact Factor:1.7.
89. Selvi M, **Dr.R.Balakrishna**, “Design and developing a Multicast Routing protocol for link failure and reliable data delivery”, International organization of Scientific Organization- Journal of Computer Engineering IOSR-JCE, Vol:16, Issue:1,Page no:6-10, Feb 2014. ISSN: 2278-0661.Impact Factor:1.68.

90. Venkatesh A, **Dr.R. Balakrishna**, “Comparison study of various WSN Routing protocols”, International Journal of Advanced Technology in Engineering and Science , Vol:5, Issue:7, July 2017, ISBN: 2348-7550. Impact Factor:1.732.
91. **Dr. R. Balakrishna**, Rajesh K.S, “Design and Implementation of AMRP for Multi Hop Wireless Mobile Ad hoc Networks”, Inter National Journal of Advanced Networking and Applications, Vol:4, Issue:4, Page:1662-1666, March 2013. ISSN:0975-0282.Impact Factor:1.3.
92. Venkatesh A, **Dr.R.Balakrishna**, “A Study Authenticated Techniques for WSN”, International Journal of Engineering Research and Technology (IJERT), Vol:2, Issue:10, October 2013. Page: 2003-2005. Impact Factor: 2.88.
93. Rajesh K.S, **Dr.R.Balakrishna**, “Efficient Power Utilization in MANETS”, International Journal of Advanced and Innovative Research, Vol 1, Issue 3, Aug 2012. ISSN:2278-7844.Impact Factor:0.8.
94. Vijayanand S, **Dr. R. Balakrishna**,“Scheduling Optimality for Multi Hop Wireless Mobile Ad hoc Networks”, International journal of network and mobile technologies (IJNMT), Vol 3, no 2,july - Dec 2012, ISSN: 2229-9114.Impact Factor:0.732.
95. T.N.Anitha , **Dr.R.Balakrishna**, “A Novel Approach to balance the dynamic load using task allocation on distributed content based cluster Servers”, Indian Journal of computer Science and Engineering(IJCSE) Vol 3, Issue no: 2 , Page 293-297, ISSN: 0976-5166. May 2012. ISSN:0976-5166. Impact Factor:0.8.
96. Mr. Naveen. L, **Dr. R.Balakrishna**, Mr. Nandish U. G, Mr.AnandKumar K. S, “Adhoc On-Demand Distance Vector Routing Reputation-Based (AODVRB) over MANET” ,IRACST - International Journal of Computer Science and Information Technology & Security (IJSITS), Vol. 2, No. 1, 2012, ISSN: 2249-9555. Impact Factor:0.51.
97. KumudaM.N ,KiranGowda C , Rajesh K S ,**Dr. R.Balakrishna**, “Corrective Information Based Registration”, IRACST - International Journal of Computer Science and Information Technology & Security (IJSITS), Vol. 2, No. 1, 2012 , ISSN: 2249-9555 .Impact Factor:0.48.
98. Mr.Nandish.U.G , **Dr. R Balakrishna**, Mr.Naveen L, Mr. Anandkumar.K.S , “Detecting and Preventing Security Threats on Servers and Browsers”, International Journal of Electronics Communication and Computer Engineering, Volume 3, Issue 1, Page 63-68. ISSN:2249 071X.Impact Factor:1.0
99. Mr.AnandKumar.K.S , **Dr. R Balakrishna** , Mr.Nandish.U.G , Mr.Naveen L , “A Social Networking (Orkut) On Local Area Network with Client Server Architecture”, International

Journal of Computer science and Software engineering, Page no: 126-135, Issue 3, Vol 3, Feb 2012. ISSN:2277 128X.Impact Factor:2.08.

100. **Dr. R Balakrishna**, Rajesh K.S, “Security Performance Issues on ASRP in MANETS”, International Journal of Engineering and Science, Page no:1896-1916 Issue 5, Vol 8, December 2011. ISSN:2229 6913. Impact Factor:1.8
101. AnandkumarK.S , **Dr.R.Balakrishna**, “Computational Analysis of Rheumatoid Arthritis Disease using XAMPP Server”, International Journal of Computer Information Systems, Page: 35-39 Vol. 3, No. 3, September 2011. ISSN:2229-5208.Impact Factor:0.88
102. T.N.Anitha, **Dr.R.Balakrishna**, “An Efficient and Scalable Content Based Dynamic Load Balancing Using Multi-parameters on load Aware Distributed Multi Cluster Servers”, International Journal of Engineering Science and Technology, Vol:3, Issue: 8 Page:6401-6411. August 2011. ISSN:0975-5462.Impact Factor:3.14.
103. **Dr.R Balakrishna**, Vijayanand S, Dr.M.S.Bhagyashekar, “ Performace issues on AODV and DSDV for MANETS”, International Journal of Academic Science Journal , Vol 20, issue 3, Page no 456-465, April 2011. ISSN: 2141-6494.Impact Factor:1.78.
104. **Dr. R Balakrishna**, Vijayanand S, Rajesh K.S. “Compression of Initial Ranging Scheme in WIMAX Using Markova Models”, International Journal of Modern Engineering Research, Vol 1,Issue no:1 Pages 74-83 September 2011. ISSN:2249-6645.Impact Factor:1.3.
105. **R.Balakrishna** ,Sreekanth P D, Geethanjali N, Sreedevi P D, Shakeel Ahmed, “Efficacy of Support Vector Regression prediction model”, International Journal of Advanced Computer Engineering Feb 2008.ISSN: 2227-128X.Impact Factor:2.3
106. **R.Balakrishna**, Dr.U. Rajeswara Rao, Dr.N.Geethanjali “A secured authenticated key exchange protocol for credential services”, Defense Science Journal 2008, Page 120-129. April 2008. Impact Factor:1.3,pISSN: 0011-748X
107. **R.Balakrishna**, Dr.U.Rajeswara Rao, Dr.G.A.RamachanDra, Dr.M.S.Bhgyashekar “Comparisons of SAODV and TAODV, DSR Mobile ad hoc network Routing Protocols”, International Journal of Computer Applications and Networking (IJANA), Issue 1, Vol.4, 347-353, May 2010 ISSN: 0975-0282.Impact Factor: 1.34
108. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.N. Geethanjali, Dr.M.S.Bhgyashekar “Reliability in MANET’s Using Double Coverage Broadcasting (DCB)”, International Journal of Computer science and Communication, June 2009. ISBN: 0975-9646.Impact Factor: 1.3

109. **R.Balakrishna**, Dr.U.Rajeswara Rao, Dr.G.A.Ramachandra “Reliability in MANET’s Using Enhanced Double Coverage Broadcasting”, International Journal of Advanced Networking and Applications, Dec 2009. ISSN:0975-0282.Impact Factor: 1.34
110. **R.Balakrishna**, Dr.U.Rajeswara Rao, Dr.G.A.Ramachandra, Murali mohan Reddy, “Improved reliability in double coverage broad casting”, in Journal of computer science, Karpagam university, Vol 3, Issue 6, Page 1611-16117 May –June-2010.Impact Factor:1.3
111. **R.Balakrishna**, Dr.U.Rajeswara Rao, Jyabalan S, Dr.T.K.Basak, Dr.Cyrilraj“Performance analysis of AODV and DSDV Routing protocol”, Journal of Theoretical and Applied Information Technology, Vol 17 No.2 July 2010. ISSN: 1992-8645.Impact Factor:1.4
112. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.N.Geethanjali, Dr.M.S.Bhagyashekar, “Trust Based routing Security in MANETS”, International Journal of Computer science and Information Technology. Issue 3, Vol 4, 547-553 , Feb 2010.ISBN: 0975-9646.Impact Factor: 2.5
113. **R.Balakrishna**, Dr.U. Rajeswara Rao, Dr.N.Geethanjali, Dr.M.S.Bhagyashekar “Performance issues on AODV and AOMDV for MANETS”, (IJCSIT) International Journal of Computer Science and Information Technologies, Vol. 1 (2) , June 2010, 38-43.ISBN:0975-9646.Impact Factor:1.78
114. **R.Balakrishna**, Dr.U.Rajeswara Rao, Dr.N.Geethanjali, Dr.M.S.Bhagyashekar “Performance nalysis of AODV and AOMDV Routing protocol”, International Journal of Information Technology, vol 3 Issue no2 Page 126-132 July 2010.ISBN: 2279-0764.Impact Factor: 1.8
115. **R.Balakrishna**, Dr.U.Rajeswara Rao, Dr.M.S.Bhgyashekar, , “Performance issues on AOMDV, SAODV, DSDV in MANETS”, International Journal of Computer Science and Engineering ,Vol 2, Issues 3 ,Page 345-442. Nov 2009.ISBN: 0975-3397.Impact Factor:0.2
116. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.N. Geethanjali, “Performance Analysis of AODV and TORA Routing Protocol”, International Journal of Computer Science and Information Technology, Vol 1 Issues 3 Page 451-456. Augst 2009.ISBN: 0975-3397.Impact Factor:0.6
117. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.G.A.Ramachandra, “Performance issues on Mobile adhoc network routing Protocols”, Journal computer science and Engineering. Nov 2007.ISBN: 0975-3397.Impact Factor: 0.5
118. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.N. Geethanjali, “Multicast Performance Issues in Wireless Mobile Ad hoc Networks”, International Journal of Computer science and Network Security, Vol 2, Issues 1 Page 234-241, Dec 2010.ISBN: 1738-7906.Impact Factor: 0.5

Refereed Papers in Conferences/Workshops with Published Proceedings

- 1.
2. Vasanthamma G, Dr.R.Balakrishna, “ Energy-Efficient Cluster Head Selection for Optimal Routing in WSN using Fuzzy-ACO”, CETE 2023 (2nd International Conference on Emerging Trends in Engineering) , Communicated.
3. **Dr.R.Balakrishna**, Selvi M, “ Comparative Analysis of NAMP, SPREAD and ENAMP are Routing Protocols in Mobile Adhoc Networks”, Online International Conference on Recent Trends in Computer Science and Information Technology, ICRCST-20, Organized on 17th and 18th June 2020, ISBN: 978-93-80831-66-4.
4. **Dr.R.Balakrishna**, Prasad AY, “Efficient Protocol Identification of MANET Cluster Head Formation and Selection Routing for Wireless Sensor Networks”, Online International Conference on Recent Trends in Computer Science and Information Technology, ICRCST-20, Organized on 17th and 18th June 2020, ISBN: 978-93-80831-66-4.
5. Mr.Murali G, Dr.Vinayak Murthy, **Dr. Balakrishna R**, Dr.UdayaRani V, “*Evaluation of Energy Performance Routing Protocol (EPRP) with Low Mobility*” in 2nd International Conference on Green Computing & Internet of Things (ICGCIoT) on 16th to 18th August 2018, at Global Academy of Technology, Bengaluru, Karnataka, India.
6. Prasad A Y, **DR R. Balakrishna** “A Survey on Efficient Protocol Identification of MANET Cluster Head Formation and Selection Routing for Wireless Sensor Networks” Third International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT) 14-15, December 2018
7. Mr.Murali G, Ms.Divyashree B.N, **Dr. Balakrishna R**, DrM.Vinayaka Murthy, “Enhanced AODV with Secrete Key Sharing to Improve Security and Energy Efficiency in MANETs”, 1st International Conference on “Innovations in Computing & Networking –ICICN-16”, May 12th& 13th 2016. RRCE, Bangalore.
8. Anandkumar K S, **Dr.R.Balakrishna**, “Comparative Analysis of Delay and Throughput Using IEEE 802.11 and Receiver Centric –MAC Protocol in Wireless Sensor Networks”, International Conference on Innovations in powerand Advanced Computing Technologies, 2017.
9. Murali G, **Dr.R.Balakrishna**, “ Enhancing the power consumption in sensor Network using EEPAR with low mobility”, 2nd International Conference on Data Engineering and Communication System, held during December 28th -29th , 2015.

10. AkkasaliNeelakantachari , **Dr.R.Balakrishna**, “Finding Jammer Location in WSN”, National conference on Frontiers and Advances in Information Science and Technology FAIST13 at RRCE 23rd& 24th May 2013. ISSN: 978-93-5097-705-7.
11. AnandGundavar, **Dr.R.Balakrishna**, KeertiNaregal , “Leach Ex Protocol- A Comparative Performance Study and Analysis with Leach variants of WSN”, National conference on Frontiers and Advances in Information Science and Technology FAIST13 at RRCE 23rd& 24th May 2013. ISSN: 978-93-5097-705-7.
12. ZakirHussain , **Dr.R.Balakrishna**, “A survey on MANETs- Types, Characteristics, Applications and Protocols used”, National conference on Frontiers and Advances in Information Science and Technology FAIST13 at RRCE 23rd& 24th May 2013. ISSN: 978-93-5097-705-7.
13. Vinaykumar K, Chandan, **Dr.R.Balakrishna**, “Confidentiality Protection of Data in Cloud Computing Systems”, International Conference on Cluse 2012, at RRCE, April – 2012. ISSN:
14. Ms.Rashmi B.N, **Dr.R.Balakrishna**, Mr.AnandaKumar K.S, “DEVELOPMENT OF SELECTIVE REPEAT ARQ OVER UDP”, National Conference on Frontiers of Computer Science and Technology, At RRCE, Feb 2012. ISBN: 978-1-62050-050-7.
15. AnandKumar.K.S, **Dr.R.Balakrishna**, Nandish.U.G, “ IMPLEMENTATION OF SOCIAL NETWORKING ON LOCAL AREA NETWORK” , National Conference on Frontiers of Computer Science and Technology, At RRCE, Feb 2012.ISBN: 978-1-62050-050-7
16. KiranGowda C, KumudaM.N, **Dr.R.Balakrishna**, “CORRECTIVE INFORMATION BASED REGISTRATION” , National Conference on Frontiers of Computer Science and Technology, At RRCE, Feb 2012.ISBN: 978-1-62050-050-7.
17. Mr. Naveen. L, **Dr.R.Balakrishna**, Mr.Nandish, “ADHOC ON-DEMAND DISTANCE VECTOR ROUTING REPUTATION-BASED (AODVRB) OVER MANET”, National Conference on Frontiers of Computer Science and Technology, At RRCE, Feb 2012.ISBN: 978-1-62050-050-7.
18. Vinay Kumar K., **Dr.R.Balakrishna** , “SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) IN SUBTRANSMISSION AND DISTRIBUTION LEVELS IN POWER SYSTEMS”, National Conference on Frontiers of Computer Science and Technology, At RRCE, Feb 2012. ISBN: 978-1-62050-050-7.
19. Janardhan D, **Dr.R.Balakrishna**, “Routing protocols for Mobile Ad hoc networks: Survey on Analysis, Current Development and Performance Evaluation”, National Conference on Frontiers of Computer Science and Technology, At RRCE, Feb 2012.ISBN:978-1-62050-050-7.

20. Rajesh K.S, **Dr. R. Balakrishna**, Shashidhar G, “Routing Mechanism in Ad hoc Networks survey Paper”, International Conference at RNSIT, Dec 2011. ISBN:978-93-81583-17-3.
21. RashmiBN ,**Dr. R. Balakrishna**,Anandkumar K.S, “Development of E-Booking System Using TCP/IP Protocol”, National Conference on Convergent Innovative Technologies & Management, Page no:19, 2nd December 2011.
22. Nandish U.G.,**Dr.R.Balakrishna**,Anandkumar K.S, “RRM in Cellular Relay Networks in the Next Generation Wireless Communication”, National Conference on Convergent Innovative Technologies & Management, Page No78, 2nd December 2011. ISBN:
23. **Dr. R Balakrishna**, Rajesh K.S, VijayanandS , “Performance issues on AODV and DSDV for MANETS” . National conference on frontiers of computer science, May 19-21, 2011.
24. **Dr. R Balakrishna**, Vijayanand S, Rajesh K.S, “Reactive and Proactive routing protocols in MANETs”, National conference on frontiers of computer science , May 19-21,2011. ISBN.
25. **R.Balakrishna**, Dr.U.RajeswaraRao ,IEEE Advanced Computing Conference in “Routing Misbehavior Detection in MANET Using 2ACK”, at <http://iacc.co.in>, Thapur University, Patala Nov 2009. ISBN:
26. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.N.Geethanjali “Internet Content Filter Ad-hoc Network on IXP1200”, National Conference in TECHNOVATION2008, Page no 98-106. May 2008.
27. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.N.Geethanjali “Detection of RoutingMisbehavior in Mobile Ad Hoc Networks”, in National Conference Tantraganana 2008 on 25-26th Sept 2008,at GSSSIE, Mysore.
28. **R.Balakrishna**, Dr.U.RajeswaraRao ,Dr.N.Geethanjali ” A secure key Exchange protocol for credential services”, in 4th IEEE International Conference 2008 at <http://iccan.chetindia.ac.in/>, Kannur, Tamil Nadu. Nov 2008 ISBN:
29. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.N.Geethanjali, “Video Conferencingon Mobile Ad-hoc Network”, in 2nd International Conference ICCR2008, Page298-305.www.cogrec.org. June 2008, ISBN:
30. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.K.C.Shet, “Development of Scheduler for Real Time and Embedded System Domain”, in digital library at IEEE AINA-2008 International Conference, JAPAN,. The details about the conference is available at <http://www.aina-conference.org/2008/>, April 2008, ISBN:

31. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.N.Geethanjali “A secured authenticated key exchange protocol for credential services”, in 3rd International conference ICACCT- 008, Page 120-129, www.apiitindia.org/icacct2008.ISBN:
32. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.N.Geethanjali “Enhanced Secure Authenticated Key Exchange Protocol for Credential Services”, in the IEEE International Journal World Congress Science and Engineering Technologies”, France ,Lavna. Nov 22-24,2008. ISBN:
33. T.N.Anitha, **Dr.Balakrishna.R**, “Content Based Load Balancing Using Web Clusters & Service Rankings”, International Conference on Power, Circuit and Information Technologies, Vol: 1 Issue: 1 , Page No: 25 ,April 2015 ISSN:

1. Dr.R.Balakrishna, Dr.Selvi M, “ Design and Analysis of Algorithms”, Book published in Book Rivers and its available in Amazon, Flipkart, Google play, ISBN No:978-9-5515-120-9

2. Dr.R.Balakrishna, “ Java for Beginners”, Book published in Amazon Kindle and its available Amazon ,ASSN: B09T98QLZ6, https://www.amazon.in/dp/B09T98QLZ6/ref=cm_sw_r_apan_glt_TQ70VP9Y988CNSNWN8RN

3. Dr.R.Balakrishna, Dr.Selvi m, “ Automata Theory and Computability”, Book published in Book Rivers and its available in Amazon, Flipkart, Google play, ISBN No:978-93-5515-066-0

4. Dr.B.Shadasharappa, Dr.R.Balakrishna, Prof. P. Ramkumar, “ Python Programming and Its Applications”, Book Published in Book Rivers and available in amazon, Flipkart , Google Play. ISBN no: 978-93-5515-097-4

5. Dr.R.Balakrishna, “Service Framework for Video streaming in Multi-Channel Multi-Radio”, Lambert Academic Publisher, ISBN: 978-620-2-67892-6.

1. Dr.R.Balakrishna attended a conference paper titled “Enhancing the Resilience of Critical Infrastructure through Advanced Cybersecurity Strategies Using A Conceptual Comprehensive Approach to Safeguard the Power Systems in The 7th IEEE International Conference on Information Systems and Computer Networks (ISCON 2025), IEEE Conference Record No: 65210,
2. Dr.R.Balakrishna attended a conference paper titled “Comprehensive Solution and Implementation of an 4Axis Selective Compliance Assembly Robotic Arm [SCARA] for Automated Pick-&-Place of Integrated Circuit Components onto Printed in The 2025 2nd Asia Pacific Conference on Innovation in Technology (APCIT)
 - a. Vasanthamma G, Dr.R.Balakrishna, “ Energy-Efficient Cluster Head Selection for Optimal Routing in WSN using Fuzzy-ACO”, CETE 2023 (2nd International Conference on Emerging Trends in Engineering) , Communicated.
 - b. **Dr.R.Balakrishna**, Selvi M, “ Comparative Analysis of NAMP, SPREAD and ENAMP are Routing Protocols in Mobile Adhoc Networks”, Online International Conference on Recent Trends in Computer Science and Information Technology, ICRCST-20, Organized on 17th and 18th June 2020, ISBN: 978-93-80831-66-4.
 - c. **Dr.R.Balakrishna**, Prasad AY, “Efficient Protocol Identification of MANET Cluster Head Formation and Selection Routing for Wireless Sensor Networks”, Online International Conference on Recent Trends in Computer Science and Information Technology, ICRCST-20, Organized on 17th and 18th June 2020, ISBN: 978-93-80831-66-4.
 - d. Mr.Murali G, Dr.Vinayak Murthy, **Dr. Balakrishna R**, Dr.UdayaRani V, “*Evaluation of Energy Performance Routing Protocol (EPRP) with Low Mobility*” in 2nd International Conference on Green Computing & Internet of Things (ICGCIoT) on 16th to 18th August 2018, at Global Academy of Technology, Bengaluru, Karnataka, India.
 - e. Prasad A Y, **DR R. Balakrishna** “A Survey on Efficient Protocol Identification of MANET Cluster Head Formation and Selection Routing for Wireless Sensor Networks” Third International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT) 14-15, December 2018

- f. Mr.Murali G, Ms.Divyashree B.N, **Dr. Balakrishna R**, DrM.Vinayaka Murthy, “Enhanced AODV with Secrete Key Sharing to Improve Security and Energy Efficiency in MANETs”,1st International Conference on “Innovations in Computing & Networking –ICICN-16”, May 12th& 13th 2016. RRCE, Bangalore.
- g. Anandkumar K S, **Dr.R.Balakrishna**, “Comparative Analysis of Delay and Throughput Using IEEE 802.11 and Receiver Centric –MAC Protocol in Wireless Sensor Networks”, International Conference on Innovations in power and Advanced Computing Technologies, 2017.
- h. Murali G, **Dr.R.Balakrishna**, “ Enhancing the power consumption in sensor Network using EEPAR with low mobility”, 2nd International Conference on Data Engineering and Communication System, held during December 28th -29th , 2015.

- i. AkkasaliNeelakantachari , **Dr.R.Balakrishna**, “Finding Jammer Location in WSN”, National conference on Frontiers and Advances in Information Science and Technology FAIST13 at RRCE 23rd& 24th May 2013. ISSN: 978-93-5097-705-7.
- j. AnandGundavar, **Dr.R.Balakrishna**, KeertiNaregal , “Leach Ex Protocol- A Comparative Performance Study and Analysis with Leach variants of WSN”, National conference on Frontiers and Advances in Information Science and Technology FAIST13 at RRCE 23rd& 24th May 2013. ISSN: 978-93-5097-705-7.
- k. ZakirHussain , **Dr.R.Balakrishna**, “A survey on MANETs- Types, Characteristics, Applications and Protocols used”, National conference on Frontiers and Advances in Information Science and Technology FAIST13 at RRCE 23rd& 24th May 2013. ISSN: 978-93-5097-705-7.
- l. Vinaykumar K, Chandan, **Dr.R.Balakrishna**, “Confidentiality Protection of Data in Cloud Computing Systems”, International Conference on Cluse 2012, at RRCE, April – 2012. ISSN:
- m. Ms.Rashmi B.N, **Dr.R.Balakrishna**, Mr.AnandaKumar K.S, “DEVELOPMENT OF SELECTIVE REPEAT ARQ OVER UDP”, National Conference on Frontiers of Computer Science and Technology, At RRCE, Feb 2012. ISBN: 978-1-62050-050-7.
- n. AnandKumar.K.S, **Dr.R.Balakrishna**, Nandish.U.G, “ IMPLEMENTATION OF SOCIAL NETWORKING ON LOCAL AREA NETWORK” , National Conference on Frontiers of Computer Science and Technology, At RRCE, Feb 2012.ISBN: 978-1-62050-050-7
- o. KiranGowda C, KumudaM.N, **Dr.R.Balakrishna**, “CORRECTIVE INFORMATION BASED REGISTRATION” , National Conference on Frontiers of Computer Science and Technology, At RRCE, Feb 2012.ISBN: 978-1-62050-050-7.
- p. Mr. Naveen. L, **Dr.R.Balakrishna**, Mr.Nandish, “ADHOC ON-DEMAND DISTANCE VECTOR ROUTING REPUTATION-BASED (AODVRB) OVER MANET”, National Conference on Frontiers of Computer Science and Technology, At RRCE, Feb 2012.ISBN: 978-1-62050-050-7.
- q. Vinay Kumar K., **Dr.R.Balakrishna** , “SUPERVISORY CONTROL AND DATA ACQUISTION (SCADA) IN SUBTRANSMISSION AND DISTRIBUTION LEVELS IN POWER SYSTEMS”, National Conference on Frontiers of Computer Science and Technology, At RRCE, Feb 2012. ISBN: 978-1-62050-050-7.
- r. Janardhan D, **Dr.R.Balakrishna**, “Routing protocols for Mobile Ad hoc networks:

Survey on Analysis, Current Development and Performance Evaluation”, National Conference on Frontiers of Computer Science and Technology, At RRCE, Feb 2012.ISBN:978-1-62050-050-7.

- s. Rajesh K.S, **Dr. R. Balakrishna**, Shashidhar G, “Routing Mechanism in Ad hoc Networks survey Paper”, International Conference at RNSIT, Dec 2011. ISBN:978-93-81583-17-3.
- t. RashmiBN ,**Dr. R. Balakrishna**,Anandkumar K.S, “Development of E-Booking System Using TCP/IP Protocol”, National Conference on Convergent Innovative Technologies & Management, Page no:19, 2nd December 2011.
- u. Nandish U.G.,**Dr.R.Balakrishna**,Anandkumar K.S, “RRM in Cellular Relay Networks in the Next Generation Wireless Communication”, National Conference on Convergent Innovative Technologies & Management, Page No78, 2nd December 2011. ISBN:
- v. **Dr. R Balakrishna**, Rajesh K.S, VijayanandS , “Performance issues on AODV and DSDV for MANETS” . National conference on frontiers of computer science, May 19-21, 2011.
- w. **Dr. R Balakrishna**, Vijayanand S, Rajesh K.S, “Reactive and Proactive routing protocols in MANETs”, National conference on frontiers of computer science , May 19-21,2011. ISBN.
- x. **R.Balakrishna**, Dr.U.RajeswaraRao ,IEEE Advanced Computing Conference in “Routing Misbehavior Detection in MANET Using 2ACK”, at <http://iacc.co.in>, Thapur University, Patala Nov 2009. ISBN:
- y. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.N.Geethanjali “Internet Content Filter Ad-hoc Network on IXP1200”, National Conference in TECHNOVATION2008, Page no 98-106. May 2008.
- z. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.N.Geethanjali “Detection of RoutingMisbehavior in Mobile Ad Hoc Networks”, in National Conference Tantraganana 2008 on 25-26th Sept 2008,at GSSSIE, Mysore.
- aa. **R.Balakrishna**, Dr.U.RajeswaraRao ,Dr.N.Geethanjali ” A secure key Exchange protocol for credential services”, in 4th IEEE International Conference 2008 at <http://iccan.chetindia.ac.in/>, Kannur, Tamil Nadu. Nov 2008 ISBN:
- bb. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.N.Geethanjali, “Video Conferencingon Mobile Ad-hoc Network”, in 2nd International Conference ICCR2008, Page298-305.www.cogrec.org. June 2008, ISBN:
- cc. **R.Balakrishna**, Dr.U.RajeswaraRao, Dr.K.C.Shet, “Development of Scheduler for Real Time and Embedded System Domain”, in digital library at IEEE AINA-2008 International Conference, JAPAN,. The details about the conference is available at <http://www.aina-conference.org/2008/>, April 2008, ISBN:

Dr.R.Balakrishna, Dr.U.RajeswaraRao, Dr.N.Geethanjali “A secured authenticated key exchange protocol for credential services”, in 3rd International conference ICACCT-008, Page 120-129, www.apitindia.org/icacct2008.ISBN:

Dr. R.Balakrishna, Dr.U.RajeswaraRao, Dr.N.Geethanjali “Enhaced Secure Authenticated Key Exchange Protocol for Credential Services”, in the IEEE International Journal World Congress Science and Engineering Technologies”, France ,Lavna. Nov 22-24,2008. ISBN:

T.N.Anitha, **Dr.Balakrishna.R**, “Content Based Load Balancing Using Web Clusters & Service Rankings”, International Conference on Power, Circuit and Information Technologies, Vol: 1 Issue: 1 , Page No: 25 ,April 2015 ISSN:

3.

119.

120.

121.