

Dr. BALAKRISHNA .R

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Principal & Professor, RRCE
RajaRajeswari College of Engineering
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RESEARCH INTEREST

Communication Network: Analytical and experimental research in traffic modelling. Optimal resource allocation in wireless access networks, and distributed algorithms for wireless ad hoc networks and wireless sensor Networks.



International /National journals /UGC Care Journal	Scopus/web of science Publications	International / National Conferences	Ph.D. Awarded	M.Sc.Engg. By Research	Ph.D. Guiding	Patents Filed / Granted / Published	Funded Projects completed	Books	Workshops
50	58	32	11	01	7	31	5	5	42

PATENTS GRANTED or FILED:

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 BIRDS’S™ PROTECTIVE SYSTEM”, Indian Patent Application No: No.201941001507 A, January 2019. Issue Date:18-01-2019. Issue no:3/2019.

EDUCATION

- **Post-Doctoral Fellow ship** in Computer Science and Engineering, **25th Jan 2025** , International European University, Area: “Novel Hybrid SCADA Model Development By Integrating Data Analytics and Time Series Analysis for Enhanced Load Forecasting and Security Micro & Nano –Grids”
- **Doctor of Philosophy** in Computer Science and Technology, **4th December 2010**, Sri Krishnadevaraya University, Anantapur. Area: Multi Hop Performance issues in wireless Mobile Ad hoc Networks.
- **Master of Technology** in Computer Networking Engineering (First Division with Distinction), Sept 2005, Maharishi Dayanad University, Rohtak. Area: Computer Networking Engineering.

- **Master of Science** in Computer Science (First Division) June 2000, Periyar University, Salem.
- **Bachelor of Science** in Computer Science (First Division) in May 1998, Sri Krishnadevaraya University, Anantapur.

PROFESSIONAL EXPERIENCE

- Presently working as Principal & Professor at RajaRajeswari College of Engineering, From 7th July 2015 to Till Date
- Worked as Associate Professor & Professor HOD, Dept. of ISE, at RajaRajeswari College of Engineering, 25th June 2010 to 7th July 2015.
- Worked as Assistant Professor in Dept. of CSE, from 8th Aug 2005 to 24th June 2010 at Don Bosco Institute of Technology, Bangalore.
- Worked as Lecturer, in Dept. of CSE, at Viajayanagara Engineering College (RYMCE), Bellary from 5th June 2000 to 31st July 2005.
- As Principal , achieved the Total intake was **420 in the Year of 2015** , at present intake in **the 2024 is 1239.**
- As Principal, Since 2015 admission status is Not less than 85%. Every Year.
- As Principal, Since 2015 Placement status is not less than 68% Every Year
- As Principal, Achieved the Autonomous status for the Raja Rajeswari College of Engineering in the Academic year 2023- 2034.
- As a Principal, Achieved NBA for the Dept of CSE, ECE, ISE in Month of March 2022-2026
- As a Principal, Achieved NAAC “A+”, Accreditation for 5 Years with Score of 3.34.September 2022. Till 2027 validity.
- As a Principal, achieved NBA Accreditation for 3 years for the Branches CSE, ECE, and EEE, ME 2019 to 2022 (Re Accredited)
- As a Principal, achieved NBA Accreditation for 3.6 years for the Branches CSE, ECE, and EEE, ME 2016 to 2019.
- As a Principal, Achieved NACC Accreditation with ‘A’ Grade with 3.35 Score Valid for 5 Year, 2016 to 2021.

- As a Principal, Established the IQAC cell and chairman the IQAC cell since 2015 and necessary formats designed and implemented in the college.
- As a Principal, Achieved the HALACT (Higher Learning Accreditation Commission of Texas) Valid for 2015-2035.
- As Principal, organized International and National Conferences, Workshops, Seminars, Expert Lectures, Implemented the new methodologies, Policies & Regulations, service Rules, Autonomous regulations, Implemented the ERP.
- As a Principal, achieved Permanent affiliation 2018-19 to 2022-24 for a 5 years period four branches (CSE, ECE, ME, and EE).
- As Principal, Achieved the 2F Approval from UGC and applied to 12B waiting for the Result.
- Established the RR-Industry Institute Cell (RR-IIC) MHRD, Created the innovation cell at RRCE.
- Established the ED, GD cell, Various Clubs like creative, idea etc.
- To liaise with apex bodies AICTE, VTU, DTE, UGC and MHRD to mobilize the Technical support for building the institutions.
- On Campus “Centre for Testing and Data Science” Created the incubation Centre Through these 72 Industries is tied up, most of students are getting internships and many more.
- Industry academia partnership Through CTDS.
- As Principal organized Partners Meet 2019. 48 Industry CEO and Representatives are participated.
- Established the TCS-ION digital Zone at RRCE, Regular revenue 2015 to 2024.
- Expert Member of Local Inquiry Committee, Visvesvaraya Technological University, Belagavi April 2015,2016,2017,2018,2021,2022,2023,2024.
- As Principal established the COE in TKM 2019 Dept. Of ME.
- As principal established the COE Intel Lab Centralized.
- As Principal established the COE IOT Lab Dept. Of CSE.
- As Principal established COE Wireless Sensor Networks Lab, Dept of ECE.
- As Principal Established the COE Hyper work Mesh Dept. Of ME
- As Principal Established the Robotics and automation Lab as skill lab for the students.

- As BOE Member for VTU.
- As a BOE, BOS Member at Jain University.
- As a BOS Member at Dr.AIT, (autonomous institute) Bengaluru.
- 1st Jan 2004 – 3th May 2005 actively involved in NBA process in VEC, Bellary.
- 1st Sept 2007- 30th May 2008 actively involved and worked as Central Coordinator for NBA at Don Bosco Institute of Technology.

RESEARCH GUIDANCE

Ph.D. : 6 Students are Supervising

Awarded Ph.D :11 M.Sc.Engg.:01

1. T.N.Anitha, Associate Professor, Working on Distributed Computing Mobile Technology, “An efficient and Scalable content Based Dynamic Load Balancing using multi-parameters on Load Aware Distributed Multi Clusters Servers” At **VTU**, Belgaum. Research Center: RRCE, **Ph.D.** Program. 2011.**Ph.D. Awarded 2017 June.**

2. K.S. Anandkumar, Asst. Professor, “Development of protocol for Effective power management and time Synchronization WSN” Working on Routing Protocols MANETS, At VTU, Belgaum, Research center: RRCE, **Ph.D.** Program. 2012. Course work Completed, and comprehensive Viva Voce completed and Thesis submitted on October 2018 and **awarded Ph.D on Jan 2019.**

3. Prasad A.Y, Asst.Professor, Working on Using Fuzzy Logic in MANETS, “Design and Implementation of Energy Efficient and secured clustering algorithm in MANET using Fuzzy Logic” at VTU,Belgaum, Research Centre: RRCE, **Ph.D.** Program2013 Course work Completed, and comprehensive Viva Voce completed **Ph.D Awarded on 25th June 2020.**

4. Selvi M, Asst. Professor, Thesis Title “Design and Developing a multicast routing Protocol for link failure and Reliable Data delivery” worked on routing protocols in MANETS at VTU, Belgaum , Research Centre : RRCE, Ph.D. Program.2013. Course work Completed, and comprehensive Viva Voce completed and **Ph.D Awarded on 26th Nov 2020.**

5. **Mr.T.Kamalraj**, Asst.Professor, “DEVELOPMENT OF CLUSTER ROUTING PROTOCOLFOR POWER CONSUMPTION IN WIRELESS SENSORNETWORKS”, Working on Energy Power consumption protocols at Dr.M.G.R. University, Chennai, Ph.D. Program 2014. Course work Completed and comprehensive Via Voce completed and **Ph.D. Awarded On August 2019.**

6. **Murali G**, Associate Professor, “Design and Implementation of Energy Performance Routing Protocol (EPRP) with low Mobility in MANETs”, working on energy efficient routing protocols at Reva University, Ph.D Program 2015. Course work Completed and comprehensive Via Voce completed and **Ph.D Awarded on 4th Jan 2020.**

7. **Rajesh K.S**, Associate Professor, “Design and Implementation of Trusted Secure Routing Framework for Dynamic Wireless Ad-Hoc Networks”, worked on energy efficient routing protocols at Rayalaseema University, Kurnool, Ph.D Program 2012. Course work Completed and comprehensive Via Voce completed and **Ph.D Awarded on 2nd Feb 2020.**

8. **Venkatarao k, Associate Professor, Thesis Title** “Designing a Model & implementing the plan for Robust Software in Small Scale Firms”, at Jain University, Bangalore, Ph.D. Program Registered 2014. Submitted the Thesis on March 2021. and Awarded Ph.D in Month of August 2021.

9. **Shashidahar V**, Assistant Professor, Title of the Thesis “A Novel Approach to Face Occulsion and Hand Gesture Recognition for Clinical Activity”, at VTU, Research Center: RRCE, Ph.D awarded in 22nd July 2023.

10. **Bharath J**, Assistant Professor, Title of the Thesis “A FUSION OF FACE AND GAIT BASED BIOMETRIC SYSTEM”, at VTU, Research Center : RRCE, Ph.D Degree awarded in the Month of 22nd July 2023.

11. Vasanthamma G, Associate Professor, Title of the Thesis, “Implementation of Energy based performance Protocol using clustering techniques in WSN”, at VTU, Research Center : RRCE, Ph.D Degree awarded in the Month of 6th Jan 2024.

12. Vinaykumar K, Assistant Executive Engineer, BESCOM, M.Sc. Engineering By Research Program at VTU, research Center RRCE, Awarded the M.Sc.Engg By Research 12th October 2024.

Ph.D Pursuing.

1.Sabhana, Assistant Professor, Title of the Thesis, “ Cancellable Biometric technique for iris Recognition System using ANN and CNN model as a Cloud service”, at VTU, Research Center : RRCE, Academic year 2021.

2. Kushal Kumar B.N, Assistant Professor, KSIT, At VTU Research Center :RajaRajeswari College of Engineering, Ph.D Program 2023 and Completed the CV and waiting for the Open Seminar 1.

3 Vinay B, Assistant Professor, BTLIT, at VTU Research Center Rajarajeswari College of Engineering, , Ph.D Program 2023 and Completed the Course work and waiting for the CV.

4. Saravanan Perumal, Asst.Professor, RRCE at VTU Research Center Rajarajeswari College of Engineering, Ph.D. Programm 2023 and Completed the course work and waiting for the CV.

5. Vinaykumar K, Assistant Executive Engineer, BESCOM, Ph.D. Program at VTU, research Center RRCE, He is completed the CV and open Seminar 1.

Over 20 M.Tech Projects Supervised.

Over 176 B.Tech Projects Supervised.

SPONSORED RESEARCH PROJECTS

(Government and Industry) (Total research Funding obtained: approx. Rs. 40 Lacks)

- **Principal Investigator of AICTE funded project Mod robs were sanctioned in the year August 2010 the 7 Lack was sanctioned from AICTE (Mobile Ad hoc Network Lab).**

- Co-investigator of AICTE funded project Research proposal scheme in the year Aug 2010 9 lacks was sanctioned form AICTE.
- Principal investigator of TCS-ION organizing the online examination works since April 2013 to Aug 2015 total sanctioned amount 18.5 lacks
- Principal investigator of SMYSR(SEED MONEY TO YOND SCIENTIST FOR RESEARCH) grant fetched from VGST, Title : “ Enhancement of the clustering based routing protocol for the communication in sensor nodes of the wireless Sensor Networks”, Total amount :4.00 Lacks on March 2015
- Supervisor of TRIP grant fetched form VGST, Vision Group of Science and Technology (Technology Related Innovative Projects) Title: “Identification of Diabetics Using Piezoelectric Sensor”, Total Amount: 40,000Rs. On March 2016.

COURSES TAUGHT

Advanced Computer Networks, Wireless Mobile Ad hoc Networks, Theory of Computation, Compiler design, Graph Theory, Advanced Operating System, Advanced Java Programming, Dot Net and C# Programming, Software Engineering,

OTHER PROFESSIONAL ACTIVITIES

- Life Member Indian Society for Technical Education Membership no: LM-46906
- Life Member in International Association of Engineers Membership No: 64200
- Member in Computer Society of India Member ship no: N1208614
- Member in International Association of Computer Science and Information Technology Member ship no: 80347910
- Member in Universal Association of Computer and Electronics Engineers and Membership no: A7800699.
- Member in Journal of the European Mathematical Society and Membership no: 48979

- Editor for the International Journal of Electronics and Electrical Engineering, ISSN: 2249-071X, <http://www.ijecce.org>.
- Editor for the International Journal of Computer Science and Communication Engineering.
- Editor for the International Journal of Wind and Renewable Energy ISSN: 2277-3975, www.ijwre.org.
- Chair Person at National Conference Frontiers of Computer Science Feb 14th, 2012.
- Chair Person at International Conference on CLUSE 2012 at RRCE, April 2012.
- Attended the Faculty Development Program at RRCE on 28th,29th,30th of July 2012 for 3 days.
- Organizing Chair Person in the National Conference on Frontiers & Advances in Information Science and Technology” – FAIST’13 on May 23rd& 24th 2013 at Rajarajeswari College of Engineering, Bangalore -74. As organizing Secretary and Editor for the Conference Proceedings with ISBN: 978-93-5097-705-7. Total No.of Papers are received 235 papers and finally shortlisted 85.
- Session Chair in the National conference in Software engineering and management, 27th Sept 2013 at BMSIT, Bangalore.
- Session chair in the National Conference in Frontiers of Computer Science at DBIT May 2014.
- Session Chair the National Conference in Information Technology at SJBIT, Feb 2014.
- Organizing Chair Person National one day work shop in 3rd September 2010 on “Finite automata and formal languages”, by Dr. Kamala Krithivasan & Dr. Rama, IIT-Madras, Chennai.

- Organizing Chair Person National Conference in 3rd May 2008. We have received 120 Papers and finally we have selected 24 papers, as an editor and Organizing Secretary.
- RD centre from VTU has approved.
- Best Performer award in DBIT 2007, 2008 and 2009 consequently all three years I have achieved.
- **Best Teacher** award in RRCE for academic year 2011-12
- **Best Researcher** award in RRCE for academic year 2011-12.
- Invited as Subject Expert for conducting the interview at YDIT.
- Invited as Subject Expert for conducting the interview at JVIT.
- Invited as Judge for the Project Exhibition at ShiridiSai Engineering College, Anekal Bangalore May 2014.
- Invited as Judge for the Project Exhibition at ShiridiSai Engineering College, Anekal Bangalore May 2015.

LECTURES AND INVITED TALKS

- Invited as Chief Guest and Key note Speaker , “Internet of Things”, VTU Sponsored Program at PDIT, Hospet on 1st Nov 2019.
- Talk on Evaluation process of NBA at Sri Sai Ram Engineering, College Bangalore on 23-02-2019.
- Talk on “NBA Evaluation Process” at Vemana Institute of Technology, in April 2017.
- Talk on “NACC Evaluation Process”, At Vemana Institute of Technology, In Month of May 2018.
- Talk on “ Flipped Class using ICT-E Tools”, Trained the entire faculty and motivated at RRCE, Bangalore 23 July 2018

- Talk on “National Board of Accreditation process 2015 June Application”, Trained the Entire Faculty and motive at SBCCE, Arni, Tamail Nadu 13th Feb 2016.
- Talk on “Research Methodology” at RRCE, 25th Jan 2016.
- Wireless Sensor Networks for Intrusion Detection, invited Talk at Dept. of CSE, SKIT, Bangalore
- Wireless Local Area Networks, and Wireless Sensor Networks, invited Talk at Dept. of CST, Sri Krishnadevaraya University. Anantapur.
- Sensor Networks with Cloud computing, invited Talk, at Dept. of CSE, BTLIT, Bangalore.
- Research Methodology, invited Talk at RRCE, Bangalore.
- Research Methodology, invited talk at DBIT, Bangalore.
- Modeling and Optimization of Sensor Networks invited Talk at Dept. of CST, Sri Krishnadevaraya University, and Anantapur.
- Ad hoc wireless Networking, invited talk at Dept. of CSE, GATEs, Gooty, Anantapur.
- Cloud Computing and Sensor Networks, invited talk at Dept. of CSE, ShiridiSai College of Engineering, May 2012.

Conference Proceedings Edited

- Organized the IEEE International Conference organized in the month of May 2018.
- Organized the Students Symposiums till now 15 times with various dept.
- Organized the Hands on workshops every semester every department.
- National Conferences organized every Year in individual Dept.
- Organized the Technical Talks, Guest Lectures every semester every dept. minimum 3.
- R.Balakrishna& Naveen L, Nandish U.G National Conference on Frontiers & Advances in Information Science and Technology” – FAIST’13, Dept of ISE, RRCE, Bangalore.

- Pradeep BS & R. Balakrishna, National Conference on Frontiers of Computer Science, Dept of CSE, RRCE, Bangalore.
- Venkatalakshmi & R. Balakrishna, International Conference on CLUSE, Dept of MCA, RRCE, Bangalore.

ORCID ID: <https://orcid.org/0000-0003-1976-3609>

Web of Science: AAF-6251-2019

Scopus ID: 57202245154

Google Scholar ID: EEU9arUAAAAJ

Vidvan Link: Profile URL: <https://vidwan.inflibnet.ac.in/profile/243452>

Books Authored and Published

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, ISSN: 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.

Inter National and National Journal Papers

1. 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://yjkx.org/article/view/97>
<https://yjkx.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>
2. 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>
3. **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 JBSE, 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://yjgkx.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>

4. **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>

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93. **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.
94. **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.
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96. **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
97. **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
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103. **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
104. **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
105. **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
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107. **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
108. **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. 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.
2. **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.
3. **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.
4. 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.
5. 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
6. 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.
7. 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.
8. 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.

9. 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.
10. 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.
11. 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.
12. Vinaykumar K, Chandan, **Dr.R.Balakrishna**, “Confidentiality Protection of Data in Cloud Computing Systems”, International Conference on Cluse 2012, at RRCE, April – 2012. ISSN:
13. 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.
14. 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
15. 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.
16. 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.
17. 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.
18. 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.

19. 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.
20. 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.
21. 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:
22. **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.
23. **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.
24. **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:
25. **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.
26. **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.
27. **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:
28. **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:
29. **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:

30. **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:
31. **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:
32. 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:

Seminars and Workshops Attended / Presented

- W1.** Attended one Day work shop on “VTU-EDU sat program” Organized by VTU at SJBIT, Bangalore on 2nd Aug 2012.
- W2.** Attended the 5 days work shop on “Rational Rose organized by IBM”, at RRCE, Bangalore on 5th Aug 2011 to 10th Aug 2011.
- W3.** Attended the one day work shop on “Biologically inspired Computing”, BITES organized by Dr.AIT on 9th MAY 2009.
- W4.** Attend the work shop on Mission 10X at DBIT, Bangalore
- W5.** Attend the Work shop on Train the Trainers Program at Infosys, Bangalore
- W6.** Attend the Work shop on “Cloud Computing and Research methodology”, RNSIT, Dec 16th 2009 Bangalore.
- W7.** Attend the work shop on “Soft Computing Techniques” at Jain University Jan 28-29th 2010.
- W8.** Attended a International Conference on B-B Technologies, at JNTU, HYD, 10 May 2003, 78-81 PP.
- W9.** “Situation Oriented Paradigm – the Next Generation of Object Oriented Computing” Presented paper at Mind Tree Consulting Ltd. 7th.Nov.2007. We have received the Second Prize in Mind Tree Organization.
- W10.** “CAMUPS CONNECT PROGRAM” Infosys, May 2nd to 18th In 2006, Mysore.
- W11.** Attended a international conference on software systems at Grand Ahsok, from 25-10-06 to 28-10-06 organized by Intel Developer Forum.
- W12.** Attended International Conference on Artificial Intelligence at Trivandrum, Kochin, from 12th - 14th March 2004, Trivandrum, 15-23 PP.

W13. Based on DB2 IBM Training by IBM LTD, RVCOLLEGE

W14. Attended the work shop Spoken Tutorial at Regional office, VTU, Bangalore 27th Sept 2014.

W15. Participating in Webinar & Live Tour of 3D Printing, Leading towards industry 4.0 held on 3-5-2020.

W16. Participating in the Power Seminar webinar on the theme Campus to Corporate Conducted by ICT Academy on 6th May 2020.

W17. Participated and Successfully completed the online workshop on Universal Human Values on the theme “ Inculcating Universal Human Values in Technical Education” during 2-6 May 2020 as organized by all India Council for Technical Education(AICTE)

W18. Attended the webinar for faculty development program “ Outcome Based Education Software” Organized by Vmedulife Software Services on 14th may 2020.

W19. Participated in the webinar on “ IPR and IP Management for Innovation and Start-Ups”, Presented by Mr.O.Prasad Rao, Deputy Controller of Patents and Desing, Ip India. Govt.of India on 15-05-2020.

W20. Participated on Leader ship talk Chief Innovation Officer MHRD innovation Cell, 16th May 2020.

W21. Participated on Faculty Program on NBA on 5-16-2020, with a passing score of 100% organized by Bharati Vidya peeth College of Engineering, Navi Mumbai. Certificate ID:T3IWHA-CE007254

W22. Attended the webinar on “knowledge Based Innovative MSME Schemes for Academic Institutions”, Organized by IEEE Photonics Society Student Chapter, On May 16th 2020.

W23. Attending the Webinar NAAC Awareness Quiz 2020 on 17-05-2020.

W24. Participated “ Faculty awareness Program on NBA and NAAC” on 21st May 2020 by GMIT, Davanagere.

W25. Attended the One Week National Level Online FDP for trainers on “ Mastering the art of Handling Post Covid Challenges for Sustainable Development”, Organized by Mr.M.G.R. University on 19th May to 23rd May 2020.

W26. Participated on “ Application of IOT in embedded System” Organized by Dr.AIT, on 22nd May 2020.

W27. Participated on Training Program on How to Balance Academics and Administrative work organized by skill Slate and powered by Zovy Studios, Pune on 25th May 2020.

W28. Attended the workshop online quiz “ Test your knowledge on NBA Criteria s”, by MLR institute of Technology, on 27th May 2020.

W29. Participated webinar on” Artificial Intelligence 101: Fundamental Concepts and Opportunities”, organized by RRCE lin 29th May 2020.

W30. Participated online Quiz “ E-Learning” Organized by Padmabhushan Vasantdada patil Praishthans College of Engineering, on 15th June2020.

W31. Attended a webinar on “ Insights on Data Science for Engineers”, Organized by RMK Engineering College, on 13-06-2020.

W32. Participated and well Performed on “ Online Quiz on Management “, Organised by Jayawantrao Sawant Polytechnic, Pune.

W33. Participated 5 Days International Faculty Development Program on Emerging Research Areas in Engineering”, Organized by SRM institute of Science and Technology, on 5th June to 9th June 2020.

W34. Participated “Conversational AI and Text Classification”, Organized by Dept of CSE, VTU, held on 13th August 2020.

W35. Participated and Completed Successfully AICTE Training and Learning (ATAL) Academy online FDP on “ Cyber Security” From 2021-2-22 to 2021-2-26 at Indian Institute of Information Technology Pune.

W36. Participated and Completed Successfully AICTE Training and Learning (ATAL) Academy online FDP on “Control Systems & Sensors Technology”, from 2021-2-1 to 2021-2-5 at National Institute of Technology Calicut.

Date:

Place: Bangalore

Dr. R.Balakrishna

Principal