Dr. Parvathi C

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Objective:

To be a part of growing organization where I can learn, make others to learn, grow and significantly contribute to the organization by becoming an expert in the chosen field of work.

Qualification:

- **PhD** (WSN) under VTU Belagavi, Research Center: Sri Venkateswara College of Engineering. Awarded in Feb 2020.
- **M.Tech in CNE** from REVA Institute of Technology and Management, VTU with an aggregate of **76.6%**
- **B.E in Information Science** from Bangalore College of Engineering and Technology, Bangalore, VTU with an aggregate of **76%**.
- **PUC** in S.Nijalingappa College, Bangalore 2000-01 with an aggregate of **63**%.
- **SSLC** in Anupama English High School, Bangalore, during 1998-99, with **80**%.

Work experience: Total work experience 16 years

Working as **Associate Professor** for **Don Bosco Institute of Technology**, from 21st Oct, 2021 till date 2021.

Worked as **Associate Professor** for **Sri Venkateshwara College of Engineering**, from 1st Feb, 2020 to 14th July, 2021.

Worked as Assistant Professor for **Sri Venkateshwara College of Engineering**, from 29th November 2017 to 31st Jan 2020.

Worked as Assistant Professor for **Don Bosco Institute of Technology** since 12th July 2010 to 27th November, 2017.

Worked as Lecturer for **Rajiv Gandhi Institute of Technology** from 9th August 2007 to 30th June 2010.

Worked as HR Recruiter for **Qualified systems and Solutions Pvt. Ltd** from 1st August 2005 to 26th June 2007.

Project Undertaken:

Network Surveyor (BE final year project)

Description :	It is a Network Project based on network protocols and socket programming. It is used to monitor all the process present in required system connected to network. Information like status, size, priority, process name, process id etc of process are enquired and monitored.
Language and Tools :	Used C language on Linux 7.2 platform.
Duration :	4 months
Team Size :	4

Secure Identification of Malicious motes in Wireless Sensor Network (M.Tech Final Year Project)

Description :	The work highlights the significance of the estimation of trust value in wireless sensor network. Sensor networks can benefit from a trust management scheme. A sensor network can become more resilient against mote capture if every mote in the network monitors their neighbors. The information of how one mote trusts another can also be used in routing
Language and Tools :	Java
Duration :	8 months
Team Size :	1

Design and Development of Energy Efficient Hierarchical Routing Protocol for Wireless Sensor Network.(PhD Research Work)

Description :	The prime focus of the study is to realize the significance of energy efficient routing and data aggregation in WSN. The core motivation is derived by addressing both energy and security problems of WSN. This research introduces a methodology consisting of three different types of analytical modeling where two of them focus on energy efficient clustering and another one is integrated to attain higher degree of security during data aggregation. The thesis basically provides an insight into the background of the problem which is related with the energy and security in WSN and also further provides preliminary information regarding the research overview. Further the study performs a thorough investigation on existing literatures to extract the open research problem. The study introduces the implementation model namely AEOC to overcome the challenges of conventional clustering modelling which is extensively discussed and further introduces another bio-inspired solution assisted energy modelling to conserve energy during WSN routing and data aggregation process. A security solution is provided to be integrated with the Bio-inspired Killer Whale Hunting Schema to optimize the data aggregation to enhance the performance of WSN both from security and energy perspectives which also have a significant impact on communication
Language and Tools :	MATLAB
Duration :	4 Years
Team Size :	1

Teaching Interests & Subject Taught

Unix Shell Programming	ADHOC Networks
Discrete mathematics	Advanced Computer Network
Software Engineering	Wireless Sensor Network
Data Base Management System	Data Base applications Lab
Computer Networks I	Unix System Programming Lab
Operations Research	Computer Networks Lab
Embedded Computing System	CCP Lab
Advanced Computer Architecture	Data Structures Lab

Member of professional Organizations

- ➢ Life Member of ISTE – LM 89842
- ➢ Life Member of CSI – L1504805
- ➢ Life Member of INSC – INSC2018505

Online Certification

- ➢ NPTEL Online Certification course on, "**Patent Drafting for Beginners**", with score 71%

Papers Presented / Published:

Sl. No.	Year	Paper Title	Journal / International / National Conferences	Remarks
	24th April 2022	Integrating Machine Learning & Artificial Intelligence to evolve eudemonia of Public health sector	Dr. Parvathi C , Divya V M, Dr.Suresha International Journal for Modern Trends in Science and Technology, 8(04):434-438, 2022 Copyright © 2022 , ISSN: 2455-3778 online DOI: https://doi.org/10.46501/IJMTST0804 074	Published
1	Feb 2022	Influence of big data on marketing	6th International Conference on ICT for Intelligent Systems (ICTIS – 2022) , Ahmedabad, India.	**Accepted**
2	Jan 2021	"Energy Saving Hierarchical Routing Protocol in WSN" http://www.ijrar.org/papers/ IJRARJFM1179.pdf	International Journal Of Research And Analytical Reviews (IJRAR), International Peer Reviewed, Open Access Journal © 2021 IJRAR January 2021, Volume 8, Issue 1, IJRARJFM1179, E-ISSN 2348-1269, P- ISSN 2349-5138 | ESTD Year: 2014	Published

3	9th Jan, 2020	Bio-Inspired Scheme of Killer Whale Hunting-Based Behaviour for Enhancing Performance of Wireless Sensor Network **https://link.springer.com/chapter/10.1007%2F978-981-15-1097-7_29** https://www.springer.com/gp/book/9789811510960	Data Engineering and Communication Technology pp 341-357 Part of the Advances in Intelligent Systems and Computing book series (AISC, volume 1079) Conference paper, First Online: 09 January 2020 https://doi.org/10.1007/978-981-15-1097-7_29 Online ISBN 978-981-15-1097-7	Published **/ Part of the Advances in Intelligent Systems and Computing book series (AISC, volume 1079)**
4	Sep 2019	Wireless Network Smart Grids for Continuous Power Supply and Monitoring	International Journal of Recent Technology and Engineering (IJRTE)	Published
5	Oct 2018	WSN Based Continuous Power Supply for Agriculture Using Smart Grid	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	Published
6	Oct 2018	Cloud Computing an Overview	International Journal of Engineering & Technology	Published
7	May 4th &5th 2018.	Design and Implementation of Priority Based Beam Schedulers for Active Electronic Scanned Array	ISTE Sponsored International Conference on Computer Networks, Security and Computing (ICCSC-2018) (Conference Proceedings), DRDO.	Presented
8	May 4th &5th 2018.	Glimpses of Artificial Intelligence	ISTE Sponsored International Conference on Computer Networks, Security and Computing (ICCSC-2018)	Presented
9	May 2017	A Combined Vital Key Cryptography for IDS Framework in Mobile Adhoc Network	5th National conference on Recent Advances in Science, Engineering and Technology(NCRASET-17), SVCE	Presented
10	May 2017	Data Transfer between Raspberry PI's : A perception of IoT	National conference on "Recent trends in computer science and engineering and Technical symposium -17 , in association with IEEE	Presented , **Secured Best Paper Award, at 85% originality , In association with IEEE**
11	April 2017	"AEOC: A Novel Algorithm for Energy Optimization Clustering in Wireless Sensor Network" DOI https://doi.org/10.1007/978-3-319-57264-2_22	Cybernetics and Mathematics Applications in Intelligent Systems, Proceedings of the 6th Computer Science On-line Conference 2017 (CSOC2017), Vol 2, pp 216-224. Online ISBN 978-3-319-57264-2 Print ISBN 978-3-319-57263-5	Published**/ Part of the Advances in Intelligent Systems and Computing book series (AISC, volume 574)**

12	Jan, 2017	An Architectural Framework with Multi-layered Security Paradigm for Wireless Sensor Network	Grenze ID: 02.ICCTEST.2017.1.60 © Grenze Scientific Society, 2017 Proc. of Int. Conf. on Current Trends in Eng., Science and Technology, ICCTEST. International Conference , Grenze Scientific Society, 2017	Published
13	May, 2016	Improving the Wireless Sensor Network Lifetime by Diminishing the Energy Consumption via Nature Inspired Technique	1st International Conference on Innovations in Computing & Networking (ICICN16), CSE, RRCE ISSN: 0975-0282	Published
14	June 2015	Energy Efficient Aware Routing Algorithm Based On Hierarchical Protocol For Improving Network Lifetime In Wsn	International Journal For Technological Research In Engineering Volume 2, Issue 10, June-2015, ISSN (Online): 2347 – 4718, pp 2209 -2212	Published
15	June 2015	Energy Aware Cluster-Based Hierarchical Routing Protocol For Wireless Sensor Networks	International Journal of Research In Science & Engineering, Volume: 1 Special Issue: 2 p-ISSN: 2394-8280, e-ISSN: 2394-8299, pp 100 - 104	Published
16	July, 2014	Existing Routing Protocols for Wireless Sensor Networks – A Study	International Journal of Computational Engineering Research (IJCER) ISSN (e): 2250 – 3005 || Vol, 04 || Issue, 7 || July – 2014 || IJCER, Open Access Journal	Published
17	June 2014	Guidance Based Multihop Broadcast Protocol For Asynchronous Duty-Cycled Wireless Sensor Networks”	International Journal of Advance Research in Science & Engineering , ISSN-2319-8354(E), **Volume 03/Issue 06 / June 2014,link:** http://www.ijarse.com/pastissue.php	Published
18	April 2014	Reliable Routing for Efficient Data Gathering and Aggregation in Wireless Sensor Networks	National Conference on " Emerging Trends in Electronics and Communication, BGS Institute of Technology, NCETEC 2014	Presented
19	Feb 2014	Sensor Node Failure Detection Based on Round Trip Delay and Paths in WSNs	National Conference on " Emerging Trends in Engeineering Technologies" (ETET-2014)	Presented, Secured II Best Paper Award
20	April 2013	EAACK—A Secure Intrusion-Detection System for MANETs	National Conference on "Decision Science and Big Data" (NCDSBD-13), BTLIT	Presented
21	Mar 2013	A Framework for Secure and Efficient Data Acquisition in Vehicular Adhoc Networks	National Conference on Recent Trends In Communication and Networking (NCRTCN-2013), DBIT	Presented

22	Mar 2012	Secure Identification of the Malicious Sensor Motes Using Empirical Evaluation of Trust Value in Wireless Sensor Network	National Conference on " Recent Trends in Technology and engineering" RATE-2012, T John Institute of Technology	Presented , **Secured Best Paper Award**
23	Mar 2012	Study on 4G Communication Architecture Components for Cloud Computing	National Conference on " Emerging Trends in Engineering Technologies" (ETET-2012),	Presented , **Secured II Best Paper Award**

Seminar -Work Shop –Organized/ attended

SL. No	Date(M/ Y)	Organization	Conference / Workshops / FDP	Remarks
1	29-04-2022	Knowledge Transfer, (To the Student, By the Student, For the Student) DBIT, 8th Sem Students	Workshop on " Hands-on Session – JAVA"	Organized
2	28-04-2022	Mr. Karthik Co-Founder Sookshma Elearning Pvt.Ltd	Two days Workshop on "Coding & Aptitude Training "	Organized
3	14/02/2022 - 18/02/2022	Online: Organised by REgional colleg for Education Research & TEchnology, Sitapur, Jaipur,	FDP on Emerging trends in Science and Engineering(FDPETSE-2022)	Participated
4	19-01-2022	Online Certification - UPFRADE	Career Planning Fundamentals	Participated
5	14-01-2022	Online- SMVDU - under PMMMNMTT Scheme)	Workshop(online) "Ethical HAcking And Cyber Security	Participated
6	23-12-2021	DBIT	CodeStorm-A tech Event	Organised
7	22/11/2021 - 26/11/2021	https://atalacademy.aicte-india.org/signup	Online Elementary FDP on National Education Policy "Teachers Role in NEP Implementation"	Participated
8	19th June 2021	Presidency University	Research Trends and Challenges in Data Security	Participated

9	20th Jan to 25th Jan 2020	SVCE, IIC & Indian Society for Non- Destructive Testing	In Pursuit of Innovation, ProductDevelopment IP & EDC	Participated
10	6th Jan to 18th Jan 2020	DBIT- AICTE Sponsored	Two Weeks FDP on "Massive Parallel Super Computing Using OpenCL Framework on the Heterogeneous Computing Platform"	Participated
11	23rd to 27th July 2019	SVCE	5 Days FDP on "Recent Trends in Data Science & Tools "in Association with ISTE & IETE	Participated
12	July 2018	SVCE	Technical seminar " Introduction to Human Values"	Participated
13	23rd to 29th June 2018	Sain Technologies	Internship on " Web Designing and Development"	Participated
14	March 2018	SVCE	Work Shop : Hands on session on Python, Matlab and android Based Mobile Application"	Participated
15	26th – 27th Feb 2018	E-ProcurementCell @ M S Building	Attended Training on E-procurementGovt. of India	Participated
16	Feb 2018	SVCE	Technical Talk on " Geo -Spatial applications" by Dr. Ganesha Raj Kasaragod, GM, NRSC, ISRO, GOI-Bengaluru	Participated
17	Jan 2018	SVCE	Promotion of Academic Integrity, Research methodolgy and PlagarismPrevention	Participated
18	June 8th – 12th 2015	DBIT	Five Day FDP on Web Technologiesin association with Spaneos Software Solutions	Participated
19	July 14th - 18th 2014	SVCE	FDP : NS2, JAVA & CCP	Participated
20	2014- May	DBIT	National Conference on " Frontiers of Computer Science" FCS-14	Participated as Organizing team
21	2011 - Feb	INFOSYS	Faculty Enablement Program	Participated
22	2013-2014	INFOSYS	Inspiration	**Silver Certificate Award**
23	2011- Nov 1st	DBIT	National Seminar "Recent Advances in Materials Science RAMS-11"	Participated
24	2011 - Sep	REVA	Workshop on " LTE Technology"	Participated as Organizing team
25	2011 - May	DBIT	National Conference on " Frontiersof Computer Science" FCS-11	Participated as Organizing team

Responsibilities & Events Organized

1. Coordination in Mega event (500+ Participants, **"DBIT GOT TALENT-2022",** Feb 24th & 25th 2022, @ DBIT.
2. Organized CODE STORM – A Tech Event, 23rd Dec, 2021, DBIT.
3. Coordinated as **Jury member** in Smart India Hackathon (SIH) 2020, 1st to 3rd August, 2020.
4. Coordinated as **Reviewer** in International Conference on Machine Learning and Data Analytics, Building the Data-Driven Future – ICMLDA 2020, held on July 18th -19th ,2020, Sri Venkateswara University, Tirupathi.
5. Coordinated as **Reviewer** in ISTE Sponsored International Conference on Computer Networks, Security and Computing (ICCSC-2019), Sri Venkateshwara College of Engineering, Bengaluru, 9th -10th May 2019.
6. Coordinated to Organize One – Day Webinar Series on "Technical Skill & Soft Skill Enhancement", SVCE Online Event, on 14th May, 2020, Dept. of CSE, SVCE.
7. Coordinated to Organize Student Development program, an interdepartmental/ Intercollege activity on "SVCE- Hacker Earth Online Coding Challenge", online event, under INCENTIA a Student Forum wing, 27th March, 2020, Dept. of CSE, SVCE.
8. Coordinated to Organize Student Development program, an interdepartmental / Intercollege activity, Two Days "Hands-on session on basics of programming with Python" , under INCENTIA, a Student Forum wing, 4th & 5th March, , 2020, Dept. of CSE, SVCE
9. Coordinated to Organize Student Development program, an interdepartmental activity on "OS workshop – Installation" under INCENTIA a Student Forum wing, Pre launching event, Nov 2019, Dept. of CSE, SVCE.
10. Chair person in UDYUKTHA 2K19 for Technical Paper presentation (500+ Participants), 27th April 2019, SVCE ,
11. Coordinated in organizing Mini Project Exhibition sponsored by ISTE & Aberame on 25th April 2019, SVCE, Bengaluru.
12. Coordinated for ICT Academy Youth Talk – 2018 15th -16th March 2019
13. Coordinated for organizing Student Development Program "STUDY IN CANADA WITHOUT IELTS COUNSELLORS TRAINING" Skype – Canada,25th April 2019
14. Organized Technical Talk on "Why ISRO & What it Does" Speaker Mr. BHM Darukesh from ISRO, Sponsored by ISTE, 1st Sep 2018, student's capacity 150, SVCE, Bengaluru.
15. Organized Student Development Program on IT Infrastructure Management Automation for which Mr. Yathish Nagaraj, Infra. Dev. Specialist, Cognizant Technology Solutions, Bangalore was the resource person, the event was sponsored by IETE, 18-08-2018, SVCE, Bengaluru
16. Organized One week FDP on Machine Learning & Applications, July 2018, SVCE

17. Coordinated to organize "ISTE Sponsored International Conference on Computer Networks, Security and Computing (ICCSC-2018)", May 2018, SVCE

18. Coordinated to organize In-house event UDYUKTHA, 13-04-2018 at SVCE , Bengaluru

19. Organized Industrial visit to ISRO for pre final yr. students for the capacity of 57 students on 08-03-2018, Bengaluru

20. Coordinated to organize Student Development Program "Learnathon - 24hrs -ICT Academy" in association with Sales force, Feb 2018 at SVCE.

Research and Funding Proposals

➢ Submitted a research Proposal titled **"Data Science and Data Analytics Using Machine learning Tools"** for VGST under Scheme **Faculty Development Programme For Engineering College Teachers (FDP-ENGG),** 24th Feb 2022

➢ Submitted a research Proposal titled "**IoT - Based Mechanism with features of extended education using Block Chain** " for VGST under Scheme **Research Grants for Scientist / Faculty (RGS/F),** 24th Feb 2022

➢ Submitted a research Proposal for CRG (Core Research Grants), Title : **" Integrating Machine Learning and Artificial Intelligence to evolve the eudemonia of public health sector",** Reference No. : 182021002872, date March 3, 2021, Total cost : 68,05,535 Rupees, duration : 36 months.

   o Current Status, Accepted for further evaluation and have been allotted a **SERB Qualified Unique Identification Document (SQUID) :** SQUID-1982-PC-7901, July 2021.

➢ Submitted a Research Proposal for CRG (Core Research Grants), Title: **"Integration of Renewable Energy Sources for Power Distribution in Agricultural Fields"**, File Number: CRG/2020/001190, Date: March 6th 2020, Total Cost: 49,59,595 Rupees, Duration: 24 Months.

   o **Current Status: Accepted for Further Evaluation on 16th April, 2020.**

➢ FDP proposal submitted to AICTE on **"Python Parallel Programming - Data Science & Machine Learning",** for **7 Lakhs**, 2nd Jan 2020.

➢ Submitted a funding research proposal to VGST – KFIST (L2) on **"Super Bot -A Life Saving Ideology"** year 2019-20 for **36 Lakhs.**

➢ Submitted a funding research proposal to AICTE - Modernisation & Removal of Obsolescence (MODROBS) on **"AI-ML R&D Lab with Blockchain Technology"** for **19 Lakhs,** 30th Dec 2019.

➢ FDP proposal submitted to VGST on **"Robotic Process Automation -Bots to automate the Mundane Tasks",** for **2 Lakhs, 2019.**

- Received grants from KSCST, 43rd Series of Student Project Programme: 2019-20, for project titled **"Number Plate Detection and Accident Alert System For 4- Wheelers ".** Computer Science and Engineering B.E. Stream A, Dr. Parvathi C (Project Guide), Students: Mr. Anmol Kumar Bari Ms. Aditi R Ms. Ashritha C Mr. Mohammed Afridi 4500.00

- Worked on the **funded Project of Rs. 20 Lakh from VGST-Vision Group of Science & Technology,** Karnataka under K-FIST level-1 for infrastructure development on **"WSN Based smart grid for Continuous power supply"** of 2016-17 and have completed successfully.

- Received grants from KSCST, 43rd Series of Student Project Programme: 2013-14, for project titled "Data Hiding Using Steganography In All Files", Computer Science and Engineering B.E. Stream A, Dr. Parvathi C (Project Guide), Student: Ms. Meenashree Chandan ,5500.00

Reviewer

- Reviewer for Book Titled "Machine Learning for Societal Improvement, Modernization, and Progress," to be published by IGI Global, scheduled for release in 2023.
- Reviewer in International Conference on Machine Learning and Data Analytics, Building the Data-Driven Future – ICMLDA 2020, held on July 18th -19th ,2020, Sri Venkateswara University, Tirupathi.
- Reviewer in ISTE Sponsored International Conference on Computer Networks, Security and Computing (ICCSC-2019), Sri Venkateshwara College of Engineering, Bengaluru, 9th -10th May 2019.

Projects Guided

- Cost Efficient Edge Intelligence Framework Using Docker Container, 2022.
- Iot Based Master Slave Surplus Water Board Method For Industries,2022
- Design and Implementation of Priority Based Beam Schedulers for Active Electronic ScannedArray
- A Combined Vital Key Cryptography for IDS Framework in Mobile Adhoc Network
- Data Transfer between Raspberry PI's : A perception of IoT
- Improving the Wireless Sensor Network Lifetime by Diminishing the Energy Consumption viaNature Inspired Technique
- Energy Efficient Aware Routing Algorithm Based On Hierarchical Protocol For Improving Network Lifetime In WSN
- Energy Aware Cluster-Based Hierarchical Routing Protocol For Wireless Sensor Networks
- Guidance Based Multihop Broadcast Protocol For Asynchronous Duty-Cycled Wireless SensorNetworks"
- Reliable Routing for Efficient Data Gathering and Aggregation in Wireless Sensor Networks
- Sensor Node Failure Detection Based on Round Trip Delay and Paths in WSNs

- ➢ EAACK—A Secure Intrusion-Detection System for MANETs
- ➢ A Framework for Secure and Efficient Data Acquisition in Vehicular Adhoc Networks

Personal Skills

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Self-Initiated and motivated, Ability to work in a team as well as alone, Continuous follow-up, Open minded and a positive attitude, Comprehensive problem-solving abilities, excellent verbal and written communication skills, ability to deal with the people diplomatically, willingness to learn, creative.

Personal Profile:

Name	: Dr**.** Parvathi C
Father's Name	**:** Chikanna.
Sex/Marital Status	**:** Female, Married.
Languages Known	**:** English, Kannada, Hindi.
Hobbies	**:** Painting, singing, Reading books.
Achievements	**:** Secured **"Excellence in Research Award – Honorable Jury Mention",** from EET CRS 9th Science & Technology Awards 2020. Secured **BEST TEACHER AWARD 2018**, from InSC – Institute of Scholars **Received Grants of Rs 20 lakhs from Vision Group of Science and Technology – K-Fist Level one, 2016-17.** Secured **Cent Percent Result Award of Appreciation**, May 2015, Adhoch Networks, Dept. of CSE, DBIT. Secured **Silver Certificate Award** at Infosys **"Inspire Program",** May 2014. Secured **Second Best Paper Award** in National **Conference,** Jyothi Institute of Technology, 2012. Secured **Best Paper Award** in National Conference, T.John Institute of Technology, 2012.

Declaration

I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Bangalore   **[Parvathi C]**