

Dr.D.USHA

Assistant Professor

Department of Computer Science

Mother Teresa Women's University

Kodaikanal



Educational Qualification :

M.C.A	Computer Science	M.S University, Tirunelveli	2002/ (65.75%)
M.Phil	Computer Science	Bharathidasan University, Trichy	2005 (68%)
M.Tech	Computer Science and Information Technology	M.S University Tirunelveli	2007 (72.72%)
Ph.D	Computer Science and Information Techonology	M.S University Tirunelveli	2014

Ph.D Dissertation is on **Wireless Sensor Networks**

Title: Design and Feasibility Study of Routing Protocols for Efficient Routing in WSN with Dependable Qos Parameters.

Professional Experience :

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
The Indian Engineering College, Vadakkankulam	Lecturer	10.04.2002	30.06.2005	3	2	20
Infant Jesus College of Engineering	Asst. Professor	02.05.2007	09.05.2008	1	0	7
National Engineering College	Asst. Professor	14.05.2008	07.04.2014	5	10	23
Infant Jesus College of Engineering	Associate Professor	14.04.2014	05.01.2015	0	8	21
Total				10	10	11

Area of Specialization : Wireless Sensor Networks

Expert Lecture Delivered : at SCAD College of Engineering and Technology, Cheranmahadevi on “**Wireless Sensor Networks**”

Achievements :GATE Score, Received Cash price award for publications in “National Engineering College”, Kovilpatti.

Short term Courses / Seminars / FDP Organized:

Theory of Computation	03.06.13 to 10.06.13	Anna University, Chennai	National Engineering College, kovilpatti
Latex Essentials for Beginners	14.06.13 to 15.06.13	AICTE, New Delhi	National Engineering College, kovilpatti

Publications

(a) Number of papers in Referred Journals

International Journals : 5

(b) Number of Papers published in refereed Conference Proceedings : 5

List of Journals

S.No	Title of the Paper	Journal Name	Month & Year
1.	Security Threats and its Countermeasures in Wireless Sensor Networks: An Overview	International Journal of Computer Applications Foundation of Computer Science, New York, USA.	Vol-29, No.6, Pages 3570-4925. ISBN: 978-93-80864-77-9. September 2011.
2.	A Swarm Intelligent Secured Routing for Wireless Sensor Network	International Journal of Computer Applications Foundation of Computer Science, New York, USA.	Vol.-57 No. 6, Page No :9120-3277 ISBN : 973-93-80870-21- November 2012
3.	A Novel Routing Protocol that Guarantees Swiftness and Reliability for Wireless Sensor Network	International Journal of Computer Applications Foundation of Computer Science, New York, USA.	Vol.-58 No. 19, Page No : 9389-3772 ISBN : 973-93-80870-49-1 November 2012

4.	Multispeed Energy Efficient Reliable Routing in Wireless Sensor Networks	International Journal of computing, communication and Information System. (IJCCIS)	Vol. No. 1, Page No 34 – 39. Jan – June 2010 ISSN:0976-1349
5.	Multi-Velocity Energy-Efficient Reliable Routing Protocol for Coal Mine Monitoring	International Journal of Computer Applications Foundation of Computer Science, New York, USA.	Vol-87 No-3 Page No.15187-3547 ISBN : 973-93-80880-13-2 February 2014

List of International Conferences

S.No	Title of the Paper	Title of the Conference	Organizer	Month & Year
1.	Multispeed Energy Efficient Routing (MERR) Protocol for coal mine Monitoring	International Conference on High Performance Communication Networks and Computing (HPCNC 2010)	School of Computing, Sastra University, Thanjavur	22-23 January 2010
2.	A novel Protocol providing probabilistic Qos guarantee in terms of reliability and timeliness for Wireless Sensor Network	International Conference on Sensors and Related Networks (SENNET-'09)	VIT University, Vellore	08.-10 December 2009
3.	Coverage preserved Optimal Routing Protocol for improving the quality of Service in Wireless Sensor Networks	International Conference on Interactions Sciences (ICIS)	The Association for Computing Machinery (ACM), Korea	24-26 th – November 2009. Pages 1427-1431. ISBN:978-1-60558-710-3
4.	Multi-velocity Energy-efficient Reliable Routing Protocol for Coal Mine Monitoring	International Conference on Computer Science and Information Technology (CCSIT- 2013)	Accepted for Publication in Springer (LNICST) Academy & Industry Research Collaboration Center (AIRCC), Australian Research Council (ARC)	February 18 - 20 2013

List of National Conferences

S.No	Title of the Paper	Title of the Conference	Organizer	Month & Year
1.	An Effective enhanced collision control Mechanism for wireless Sensor Networks	National Conference on Advances in Computer Engineering and Networking (ACENET 09)	PSNA College of Engineering, Dindigul	21 st March 2009

15. List of Workshops/ seminars/ FDP **attended:**

1. Participated in two days seminar on “**Pattern recognition for multimedia content analysis**” on (16.05.2008 and 17 05.2013).
2. Participated in the two day workshop on “ **Micro Teaching**” (18.07.2008 and 19.07.2008)
3. Participated in the two day national seminar on “ **Research issues and Challenges towards Cognition Architecture**” (19.12.2008 and 20.12.2008)
4. Participated in the two day state level seminar on “ **Recent Research: Multi Perception**” (18.09.2009 and 19.09.2009)
5. Participated in DST Sponsored a Two day National Level Seminar on **Contemporary Research Avenues in Nomadic Computing** (18.12.2009 & 19.12.2009).
6. Participated in CSIR sponsored two day seminar on “ **Nano Bio Sensors in Bio Medical Engineering** ” (17.02,2010 and 18.02.2010)
7. Participated in a two day workshop on “**Network Simulator Tools**” in Anna University, Tiruchirapalli (17.07.2010 and 18.07.2010).
8. Participated in the two days national seminar on “**Research issues in Wearable computing**” in National Engineering College (28.01.2011 and 29.01.2011)
9. Participated in one day technical seminar on” **Media security: A set-theoretic framework for Data Hiding**” in National Engineering College (29.08.2012)
10. Participated in the IEEE Faculty Development Program on **Human Computer Interaction with Ubiquitous , Pervasive and Haptic technologies** (30.12.2012 and 31.12.2012).
11. Participated in two days national level workshop on “ **Network Simulation Using NS2**” in Anna University Coimbatore (1.11.2012 & 2.11.2012)

12. Participated in UGC sponsored two days workshop on “ **Advanced concepts in Wireless Networks**” on (03.05.2013 and 04.05.2013)
13. Participated in the Faculty Development Program on “**Theory of Computation**” (03.06.2013 to 10.06.2013).
14. Participated in the Faculty Development Program on “ **Recent Trends in Computer Science and Engineering**” from (10.09.2013 to 16.09.2013)

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