



<u>Department of Computer Science and Engineering</u>			
NAME	Dr.D.ABITHA KUMARI		
UNIQUE ID	FD2011		
DESIGNATION	ASSOCIATE PROFESSOR		
QUALIFICATION	M.E.,Ph.D.,		
EMAIL ID	dabithakumari@sethu.ac.in		
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EXPERIENCE	INDUSTRY	TEACHING	TOTAL
	Nil	14 years 8 months	14 years 8 months
DATE OF JOINING THE INSTITUTION	01.06.2009		
RESEARCH FOCUS	Cognitive radio networks		
SUBJECT COMPETENCY	Theory of Computation Cryptography Data structure		
NO OF JOURNAL PUBLICATION (INTERNATIONAL/NATIONAL)	11		
NO OF CONFERENCE ATTENDED (INTERNATIONAL/NATIONAL)	12		
NO OF BOOKS PUBLISHED	-		



Level	Degree	Specialization	University	Year of Completion
UG	B.E.	Computer Science and Engineering	Anna University, Chennai	2004
PG	M.E.	Computer Science and Engineering	Anna University, Chennai	2008
Ph.D.	Ph.D.	Cognitive Radio Network	Anna University, Chennai	2019

Details of Journal Publication:

1. U.Thuslimbanu, **D.Abitha Kumari** "Spectrum Holes Sensing Policy for Cognitive Radio Network Using Reinforcement-Learning" International Journal of Advanced Research in Computer Science & Technology, 2014.
2. **D.Abitha Kumari** & N.Rajasekaran "AN ENHANCED QUEUING SYSTEM FOR MULTIPLE MOBILE ELEMENTS IN WIRELESS SENSOR NETWORK" International Journal of Applied Engineering Research, ISSN 0973-4562 (2015)
3. M.Nandhini, M.Poomani@Punitha & **D.Abitha Kumari** "An Optimal Time Interval Selection and Authenticating Primary User Signal for Cognitive Radio System" International Journal of Applied Engineering Research, ISSN 0973-4562 (2015)

4. D.Premalatha & **D.Abithakumari** "Enhancement on Meta-Heuristic Optimization of Centralized Scheduling for CRN" International Journal of Engineering Science and Computing (2016 IJESC)
5. **D.Abitha Kumari** & J Sutha "Low Power Interference Detection and Cancellation Architecture for Cognitive Radio Networks" International Journal of Printing, Packaging & Allied Sciences 4 (5), 3898-3906 (2016)
6. **D.Abitha Kumari** & Dr. J Sutha "Performance Analysis of an Efficient Architecture for Interference detector in Cognitive Radio Networks" Asian Journal of Research in Social Sciences and Humanities 6 (2), 1036-1046 (2017)
7. **D.Abitha Kumari** & Velvizhi Vinodhini "Analysis of Energy Efficiency of Adhoc Cognitive Radio Network" International Journal of Innovative Research in Science, Engineering (2017)
8. K. Leelarani & **D.Abitha Kumari** "Efficient Spectrum Sensing Pattern Using Intelligent Matrix in Cognitive Radio Network" International Journal of Advanced Research in Computer Science & Technology 2014.
9. **D.Abitha Kumari** & Dr. J Sutha, "An Efficient Encoder Architecture Design for Cognitive radio Networks", Journal of Wireless personal Communications, Springer Link Impact factor: 1.20 (2018) ISSN: 0929-6212 (print); 1572-834X (web)
10. Karthiyayini Murugesan & **D. Abitha Kumari**, "Heterogeneous Ensemble Classifier Model for Early Alzheimer's Disease Diagnosis", Asia Pacific Journal of Research, ISSN (Print): 2320-5504 , Vol: I. Issue LXXXVII, April 2018.
11. **Dr.D Abitha Kumari** et.al., "Internet of Medical Things (IoMT) Enabled Skin Lesion Detection and Classification Using Optimal Segmentation and Restricted

Details of Conference attended:

1. Presented a paper titled “Ant Colony Optimization Algorithm For Cognitive Radio Engine Design” in Second National Conference on Recent Advancements in Electronics and Communication, Sri Vidya College of Engineering and Technology, Virudhunagar on 20th April 2013.
2. Presented a paper titled “Spectrum Sharing Scheme Using Cognitive Radio Networks Based on Channel Information” in Fourth International Conference on Advances in Computer and communication IIST – 2013, Sun College of Engineering and Technology.
3. Presented a paper titled “Efficient Spectrum Sensing Pattern using Intelligent Matrix in Cognitive Radio Network” in National Conference on Computational Intelligent and High Performance Computing at SRM University on 12th and 13th February 2014.
4. Presented a paper titled “Spectrum Holes Sensing Policy for Cognitive Radio Network using Reinforcement Learning” in AICTE Sponsored International Conference on “HI-Tech Trends in Emerging Computational Technologies at Sethu Institute of Technology, Virudhunagar on 20th and 21st February 2014.
5. Presented a paper titled “An Optimal Time Interval selection and Authenticating Primary User Signal for Cognitive Radio Systems” in IEEE Sponsored 9th International Conference on Intelligent Systems and Control, Karpagam College of Engineering, Coimbatore on 9th and 10th January 2015.
6. Presented a paper titled “An Enhanced Queuing System for Multiple Mobile Elements in Wireless Sensor Network” in IEEE Sponsored 2nd International Conference on Innovations in information Embedded and Communication Systems, Karpagam College of Engineering, Coimbatore 2015.
7. Presented a paper in an International Conference on “Recent Trends in Electronics, Communication and Computation Technologies 2016 (ICRTECCT’16)” titled, “QoS Enhancement on Meta-Heuristic Optimization of Centralized Scheduling for CRN” at Sri Ramanathan Engineering College, Tirupur.
8. Presented a paper titled “Exploring Application level Semantics for Data Compression”, Karthiyayini Murugesan & D. Abitha Kumari, International conference on emerging trends in engineering, science and sustainable

technology, Sengunthar Engineering College, Erode during 5th and 6th April 2018

9. Presented the paper "Spectrum sensing cognitive radio - A Survey" in the "International conference on Contemporary Emerging Trends in Management" held on 13th and 14th February 2012 organized by Department of Management studies, Anna University of technology Madurai.
10. Presented the paper "An innovative overlay based service independent DDos Defense architecture" in the AICTE sponsored National conference on "Hi-Tech trends in emerging computational technologies" held on 20th and 21th February 2012 organized by Department of computer science and engineering, Sethu Institute of Technology, Kariapatti.
11. Presented the paper "A Genetic Algorithm for cognitive Radio Network" in the DRDO sponsored National conference on "Hi-Tech trends in emerging computational technologies" held on 29th and 30th March 2012 organized by Department of computer science and engineering, Sethu Institute of Technology, Kariapatti.
12. Presented the paper "AN IOT APPROACH FOR MONITORING WATER QUALITY USING NAIVE BAYES CLASSIFICATION" in the "8th National Conference on vSITCON 2020" held on 4th and September 2020 organized by Department of computer science and engineering, Sethu Institute of Technology, Kariapatti.