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EDUCATION QUALIFICATIONS:

Ph.D

Manonmaniam Sundaranar University (MSU), Tirunelveli. **2013**

M.E.,

Annamalai University, Chidambaram. **2007**

B.E.,

Periyar University, Salem. **2002**

DECE.,

Sakthi Institute of Technology, Bhavani . **1999**

EXPERIENCE

Assistant Professor

Bharathiar University, Coimbatore. **Jan 2008 - till date**

Kongu Engineering College, Erode. **May 2007 - Jan 2008**

Industry Experience

I.P.L. Products, Chennai-25 **Jan 2003 – July 2005.**

AREA OF INTEREST

Computer Networks & Security, Mobile Computing, Mobile Ad-Hoc Networks, Wireless Sensor Networks, Data mining, Digital Signal Processing.

Doctoral Committee Member:

1. BHARATHIAR UNIVERSITY
2. ANNA UNIVERSITY
3. Dr. M.G.R Educational And Research Institute.

Research Supervising Profile:

M.Sc., Student Project Completed since 2008 : 209

M.Phil., Research Completed : 05; Ongoing : 01

Ph.D., Research Completed : 01; Ongoing : 05

PUBLICATIONS

LIST OF JOURNAL PUBLICATIONS :

- **Int. Jnl. Of Advanced Networking and Applications (IJANA)**, A Note On: Cognitive Radio and It Performance Tools, Special Issue Published 27th March 2015, pp.1-7, ISSN: 0975-0282, IF 3.462, ICV 5.93.
- **International Journal of Computer Applications-IJCA**, Published by Foundation of Computer Science, USA, "Adaptive Delay Tolerant Routing Protocol (ADTRP) for Cognitive Radio Mobile Ad Hoc Networks Adaptive ", (0975-8887), Volume 128 – No.6, October 2015, pp. 19-24, IF 0.814.
- **Springer-Journal of Wireless Networks**, “*Adaptive reliable and congestion control routing protocol for MANET*”, Springer, ISSN 1022-0038, Vol.23, Iss.3, pp.819-829, Wireless Netw, DOI 10.1007/s11276-015-1137-3, **16 January 2016**. (SCI- IF:2.405)
- **International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)**, “Congestion Aware Reliable Transport Protocol for Cognitive Radio Ad Hoc Networks ”, **Volume No 6, Issue No. 11, Nov 2016, pp.160-166, ISSN No: 2277 128X, IF 2.080.**
- **International Journal for scientific Research & Development (IJSRD)**, “Adaptive Reliable Transport Protocol for Cognitive Radio Mobile Ad Hoc Networks”, **Volume No 4, Issue No. 10, DEC 2016, pp.124-128, ISSN (Online):2321-0613.**
- **International Journal of Advanced Research Methodology in Engineering & Technology (IJARMET)**, “A Note On: Cognitive Radio Issues, Challenges And Applications”, **Volume 1, Issue1, December 2016.**
- **International Journal of Computer Applications-IJCA**, Published by Foundation of Computer Science, USA, "Energy Efficient Spectrum Aware Channel Sensing Routing

Protocol for Cognitive Radio Mobile Ad-Hoc Networks", (0975-8887), **Volume 157 – No.3, January 2017, pp. 31-36, IF 0.814.**

- **International Journal of Computer Science and Information Technologies(IJCSIT)**, Geetha K., Vadivel R., “Grapheme Segmentation of Tamil Speech Signals using Excitation Information with MFCC and LPCC Features”, **ISSN: 0975–9646, Vol. 8 (1) , Jan 2017, pp. 48-52.**
- **International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE)**, “An Overview: Basic Concept of Network Simulation Tools”, **ISSN: 2278-1021, pp-19-22, Vol.6, Special Issue 1, Jan 2017.**
- **International Journal of Engineering and Technology (IJET)**, “Estimation of HMM-GMM Parameter for Tamil Words”, **ISSN: 0975-4024, pp.93-97, Vol.9, Issue.No.1, Feb-Mar 2017.**
- **Oriental Journal of Computer Science & Technology (OJCST)**, “Phoneme Segmentation of Tamil Speech Signals Using Spectral Transition Measure”, **ISSN: 0974-6471, PP.114-119, Vol.10, Issue. No (1), March-2017.**
- **Springer - Ramkumar J., Vadivel R. (2017) CSIP—Cuckoo Search Inspired Protocol for Routing in Cognitive Radio Ad Hoc Networks.** In: Behera H., Mohapatra D. (eds) Computational Intelligence in Data Mining. **The series of book publication - chapter 14, Advances in Intelligent Systems and Computing (ASIC) vol 556, ISBN-9789811038747 (online), Springer, Singapore, pp.145-153, DOI. https://doi.org/10.1007/978-981-10-3874-7_14, 20 MAY 2017(SCOPUS).**
- **International Journal of of Current Trends in Engineering & Technology (IJCTET)**, “Study on Speech Recognition Systems”, **ISSN: 2395-3152 pp.163-167, Vol.03, Issue. No.4, July-Aug 2017.**
- **International Journal of Computer Sciences and Engineering (IJCSE)**, “Comparison of Static and Dynamic Watchdog Technique to provide Secure Data Transfer”, **E-ISSN: 2347-2693, pp.204-209, Vol.5, Issue 9, 30 Sep 2017.**
- **International Journal of Advanced Research in Computer Science (IJARCS)**, “Survey of Watchdog Mechanism Used For Malicious Node Detection”, **ISSN: 0976-5697, pp.453-456, Vol.8, Issue. No.9, Nov-Dec 2017. (UGC Journal List)**
- **Springer-journal Automatic Control and Computer Sciences (JACCS)**, “Syllable Segmentation of Tamil Speech Signals Using Vowel Onset Point and Spectral Transition Measure”, **ISSN: 0146-4116, pp.25-31, Vol.52, Issue .No.1, Jan 2018(Scopus).**
- **International Journal of Advanced Research in Computer Science (IJARCS)**, “Particle Swarm Optimization Algorithm (PSO) Used For Security Enhancement in

MANET”, ISSN: 0976-5697, pp.742-744, Vol.9, Issue. No.2, March-April 2018. (UGC Journal List)

- **International Journal of Advanced Research in Computer Science (IJARCS)**, “COCOWA Model: Watchdog Mechanism Used to Propagate Selfish Nodes in Cellular Networks of Moving Vehicles”, ISSN: 0976-5697, pp.442-445, Vol.9, Issue. No.2, March-April 2018. (UGC Journal List)
- **International Journal of Advanced Research in Computer Science (IJARCS)**, “Homomorphic Encryption Algorithm Used For Security Enhancement In Wireless Sensor Network Content-Based Routing”, ISSN: 0976-5697, pp.745-748, Vol.9, Issue. No.2, March-April 2018. (UGC Journal List)
- **International Journal of Advanced Research in Computer Science (IJARCS)**, “Enhanced Load Control and Power Monitoring System Using DHCP Algorithm in Wireless Environment”, ISSN: 0976-5697, pp.390-392, Vol.9, Issue. No.2, March-April 2018. (UGC Journal List)
- **International Journal of Advanced Research in Computer Science (IJARCS)**, “Enhanced Security for Hop by Hop Wireless Sensor Network Using Elgamal Encryption Algorithm”, ISSN: 0976-5697, pp.777-779, Vol.9, Issue. No.2, March-April 2018. (UGC Journal List)
- **Emerald Insight -World Journal of Engineering (WJE)-** "Improved frog leap inspired protocol (IFLIP) – for routing in cognitive radio ad hoc networks (CRAHN)", Vol. 15 Issue: 2, pp.306-311, Emerald Publishing Limited, ISSN 1708-5284, 16 MAY 2018. <https://doi.org/10.1108/WJE-08-2017-0260> (E-SCI, SCOPUS).
- **An International Multidisciplinary Quarterly Research Journal (AJANTA)**, “Performance Metrics of Cognitive Radio Ad-Hoc Network (CRAHN): A Survey”, ISSN: 2277-5730, pp.20-29, Vol.-VII, Issue. No. II, Part –I, APRIL - JUNE 2018. (UGC Journal List NO:40776) IF.5.2.
- **An International Multidisciplinary Quarterly Research Journal (AJANTA)**, “Ad-Hoc Network and Its Types – An Overview”, ISSN: 2277-5730, pp. 18-23, Vol.-VII, Issue. No. II, Part –IV, APRIL - JUNE 2018. (UGC Journal List NO:40776) IF.5.2.
- **Asian Journal of Computer Science and Technology (AJCST)**, “Improving Quality of Service for Mobility Aware of Multi-path Routing Protocol for Load Balancing in Mobile Ad-Hoc Network”, ISSN: 2249-0701, pp.92-96, Vol.7, Issue. No.2, July-Sep 2018. (UGC Journal List)
- **An International Multidisciplinary Quarterly Research Journal (AJANTA)**, “Avoidance of Black Hole Attack In Wireless Network By Using Enhanced Advanced Encryption Standard Algorithm”, ISSN: 2277-5730, pp. 16-25, Vol.-VII, Issue. No. III, Part –XI, July-Sep 2018. (UGC Journal List No:40776) IF.5.2.

- **IRACST–International Journal of Computer Networks and Wireless Communications (IJCNCW)**, “An Overview of Software Defined Wide Area Network (SDWAN) and it’s Security Enhancements For Enterprise Networks”, **ISSN: 2250-3501, pp. 151-154, Vol.8, No.4, July-Aug 2018.**
- **International Journal of Applied Engineering Research (IJAER)**, “Performance Evaluation of Multipath Routing Using AODV and DSR Protocol”, **ISSN: 0973-4562, pp.16049-16054, Vol.13, Issue Number 22, DEC 2018. (scopus , UGC Journal List NO: 64529)**
- **International Journal of Applied Engineering Research (IJAER)**, “Using Dynamic Watchdog Optimization Technique for Secure Data Transfer in MANET”, **ISSN: 0973-4562, pp. 16312-16317, Vol.13, Issue Number 23, DEC 2018. (scopus, UGC Journal List NO: 64529)**
- **International Journal of Intelligent Engineering & Systems (IJIES)**, “Performance Modeling of Bio-Inspired Routing Protocols in Cognitive Radio Ad-Hoc Network to Reduce End-to-End Delay”, **ISSN: 2185-3118, pp.221-231, Vol.12, Issue Number 01, Jan 2019. (Scopus, UGC Journal List NO: 22983)**
- **Journal of Applied Science and Computations (JASC)**, “A System To Filter Unwanted Messages From OSN User Walls”, **ISSN NO: 1076-5131, pp. 1121-1219, Volume VI, Issue III, March 2019. (UGC Journal List No: 41238, ISSN : 1076-5131)**
- **Journal of Applied Science and Computations (JASC)**, “Privacy Preserving For Cloud Data Using Multi Keyword Search Approach”, **ISSN NO: 1076-5131, 1220-1228, Volume VI, Issue III, March 2019. (UGC Journal List No: 41238, ISSN : 1076-5131)**
(UGC Journal List No: 41238, ISSN : 10765131)
- **Journal of Applied Science and Computations (JASC)**, “Cloud Computing Security From Single To Multi-Cloud Storage In Banking Sector”, **ISSN NO: 1076-5131, pp. 2143-2149, Volume VI, Issue III, March 2019. (UGC Journal List No: 41238, ISSN : 1076-5131)**
- **Journal of Applied Science and Computations (JASC)**, “Detection System For Suspicious URLs In Twitter Using Warning Bird”, **ISSN NO: 1076-5131, pp. 2150-2158, Volume VI, Issue III, March 2019. (UGC Journal List No: 41238, ISSN : 1076-5131)**
- **Journal of Applied Science and Computations (JASC)**, “a secure cryptosystem using NTRU scheme over big data cloud Storage”, **ISSN NO: 1076-5131, pp. 2159-2167, Volume VI, Issue III, March 2019. (UGC Journal List No: 41238, ISSN : 1076-5131)**

- **Journal of Network Communications and Emerging Technologies (JNCET)**, “An Overview: Project Management System Used for Industries ”, **ISSN: 2395-5317** Ever Science Publications , **PP 1 -4, Volume 9, Issue 4, April 2019.**
- **Journal of Applied Science and Computations (JASC)**, “Privacy Authentication Protocol on Cloud Shared Authority Using Encryption Technique”, **ISSN NO: 1076-5131, pp. 1826-1834, Volume VI, Issue IV, April 2019.** (UGC Journal List No: 41238, ISSN : 10765131)
- **LNICST – Lecture Notes of the Institute for Computer Science Social Informatics and Telecommunications Engineering (LNICST) 2019**, Ubiquitous Communications and Network Computing book series, “NB-FTBM Model for Entity Trust Evaluation in Vehicular Ad Hoc Network Security”, **Published by Springer - Cham -Nature**, Switzerland, Vol. 276, pp. 173-187, 2019, DOI <https://doi.org/10.1007/978-3-030-20615-4-13>, Print ISBN 978-3-030-20614-7, ISBN 978-3-030-20615, 16 May 2019.
- **International Journal of Recent Technology and Engineering (IJRTE)**, “Flexible Particle Swarm Optimization Based Routing Protocol to Reduce Energy Consumption in Mobile Ad-Hoc Network”, *Published By: Blue Eyes Intelligence Engineering & Sciences Publication*, **Volume-8 Issue-2, PP.2914-2919, DOI: 10.35940/ijrteB25004.078219 ISSN: 2277-3878, July 2019.** (UGC- SCOPUS)
- **International Journal of Recent Technology and Engineering (IJRTE)**, “ABCIP: Artificial Bee Colony Inspired Protocol for Routing in Flying Ad-Hoc Network”, *Published By: Blue Eyes Intelligence Engineering & Sciences Publication*, **Volume-8 Issue-2, PP. 2741- 2749,, DOI: 10.35940/ijrte.B2070.078219,ISSN: 2277-3878, July 2019.** (UGC- SCOPUS)
- **International Journal of Scientific & Technology Research (IJSTR)**, “Dynamic Shrink Route Optimization (DSRO) Technique For Preventing Link Breakage in MANET”, **Volume-8 Issue-09, PP. 658-661,ISSN: 2277-8616, Sep 2019.** (UGC- SCOPUS IF: 3.023)
- **International Journal of Engineering Research & Technology (IJERT)**, “Comparative Analysis Between Dynamic Shrink Route Optimization Algorithm (DSRO) and AODV Routing Protocol”, **Vol. 8 Issue 10,PP.170-173 ISSN: 2278-0181,October-2019.** (UGC- SCOPUS indexed)
- **SocPros 2018 - Soft Computing for Problem Solving “A Study on Intrusion Detection System of Mobile Ad-hoc Networks”**, **Springer** publication, Springer Nature Singapore Pvt.Ltd., **Vol.2., pp. 307-316**, doi.org/10.1007/978-981-15-0184-5, ISSN 2194-5365, 8 ISBN 978-981-15-0184-5, **2020.** (scopus Index)
- **Journal of Advance in Dynamical & Control Systems**, “Ant Colony Optimization based Grouped Origin Routing (ACGOR) Technique Using Trustable Node Convention Algorithm in MANET”, **Vol.12, Iss.4, PP.474 - 485, ISSN: 1943-023X, Mar 2020. DOI: 10.5373/JARDCS/V1214/20201909.** (Scopus Indexed).

- **International Journal of Engineering Research & Technology (IJERT)**, “Bio-Inspired Approach Sybil Attack in AODV based MANET Using BFO Algorithm”, **Vol. 9, Issue 7, PP. 221-226, ISSN: 2278-0181, July 2020. (UGC- SCOPUS indexed).**
- **Indian Journal of Science and Technology (INDJST)**, “Bee Inspired Secured Protocol for Routing in Cognitive Radio Ad-Hoc Networks”, **Vol.13, Iss.30, PP.2159-2169, ISSN: 0974-6846, Aug 2020. DOI: 10.17485/IJST/v13i30.1152 (Web of Science).**
- **International Journal of Emerging Trends in Engineering Research (IJETER)**, “Meticulous Elephant Herding Optimization based Protocol for Detecting Intrusions in Cognitive Radio Ad Hoc Networks”, **Vol. 8. Iss.No. 8, PP.4548 – 4554, ISSN 2347 – 3983, Aug 2020, DOI:10.30534/ijeter/2020/82882020,(UGC-Scopus Indexed)**
- **International Journal of Computer Sciences and Engineering (IJCSE)**, “Automatic on-Demand Selection of Suitable Wireless Scheduling Algorithm to Minimize Queue Overflow Probability”, **Vol. 8. Iss.No. 9, PP.48-53, E-ISSN 2347 – 2693, Sep 2020, DOI: <https://doi.org/10.26438/ijcse/v8i9.4853>, (63193-UGC-Indexed)**
- **International Journal of Computer Sciences and Engineering (IJCSE)**, “Distributed Path Computation with Intermediate Variables (DPCIV) for Distributed Routing Algorithms to Guarantee Routing Decisions”, **Vol. 8. Iss.No. 9, PP.59-63, E-ISSN 2347- 2693, Sep 2020, DOI: <https://doi.org/10.26438/ijcse/v8i9.5963>, (63193-UGC-Indexed)**
- **International Journal of Computer Sciences and Engineering (IJCSE)**, “Implementation of Automated Criminal Face Detection System Using Facial Recognition Approach”, **Vol. 8. Iss.No. 9, PP.38-42, E-ISSN 2347- 2693, Sep 2020, DOI: <https://doi.org/10.26438/ijcse/v8i9.3842>, (63193-UGC-Indexed)**
- **International Journal of Computer Sciences and Engineering (IJCSE)**, “Automated Visa Dispensation Application System to Maintain a Repository of Information about Visa Applicants”, **Vol. 8. Iss.No. 9, PP.28-32, E-ISSN 2347- 2693, Sep 2020, DOI: <https://doi.org/10.26438/ijcse/v8i9.2832>, (63193-UGC-Indexed)**
- **International Journal of Computer Sciences and Engineering (IJCSE)**, “Java Based Intrinsic Multiple Mail Service Application Using Simple Mail Transfer Protocol and Post Office Protocol”, **Vol. 8. Iss.No. 9, PP.19-23, E-ISSN 2347- 2693, Sep 2020, DOI: <https://doi.org/10.26438/ijcse/v8i9.1923>, (63193-UGC-Indexed)**
- **Journal of Ambient Intelligence and Humanized Computing (JAIHC)**, “Design of an effectual node balancing cluster with partitioner algorithm using Markov decision process”, **Vol.-----, Iss.No.-----, PP.-----, ISSN:1868-5137, DOI 10.1007/s12652-020-01891-6, Springer (SCOPUS and SCI Indexed).**

- **International Journal of Computer Networks and Applications (IJCNA)** “Improved Wolf Prey Inspired Protocol for Routing in Cognitive Radio Ad-Hoc Networks”, Vol.7, Iss.No.5, PP.126--136, ISSN:2395-0455, DOI 10.22247/ijcna/2020/202977, Sep-Oct 2020, EverScience Publications (**SCOPUS**).
- **Indian Journal of Computer Science and Engineering (IJCSE)** “Design of Multi-Agent Multi Aggregator (M-MA) For the Distributed Wide Area Network”, Vol.11, Iss.No.5, PP.426--437, e-ISSN:0976-5166, p-ISSN: 2231-3850, DOI 10.2187/indjcse/2020/v11i5/201105044, Sep-Oct 2020, (**SCOPUS**).

BOOK CHAPTER:

- IGI Global Disseminator of Knowledge , InfoSci-On Demand- IGI Premium Reference Source- Book Title : **Incorporating the Internet of Things in Healthcare Applications and Wearable Devices , Chapter No:6, “ QoS-Enabled Improved Cuckoo Search-Inspired Protocol (ICSIP) for IoT-Based Healthcare Applications”, pp.109-121, Published by: IGI Global Publication , DOI: 10.4018/978-1-7998-1090-2.ch006, ISBN13: 9781799810902|ISBN10: 1799810909|EISBN13: 9781799810919,October, 2019. (scopus Index)**
- **Intelligent Computing And Signal Processing - “Various Security Strategies and Controller Placement Problem of Software Defined Network (SDN): A Study” Book Chapter -16, Narosa Publishing House, ISBN: 978-8487-691-8, pp.16.1-16.14, 2020.**
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INTERNATIONAL CONFERENCE:

- **Ic-ETITE 2020 - IEEE2020 - International Conference on Emerging Trends in Information Technology and Engineering**, “Extensible Particle Swarm Optimization Technique Using Route Set Choosing Algorithm in MANET”, Organized by School of Information Technology and Engineering, **at VIT-Vellore, 24-25 Feb 2020.**
- **FICCSI 20 - First International Conference on Computational Science and Intelligence**, “An Analysis of Bio-Inspired Techniques And Possible Attacks in MANET Routing”, Organized by Department of Computer Applications, Computer Science (PG) & Microbiology, **KSR College of Arts And Science (Autonomous), T.Gode, Namakkal, 26-27 FEB 2020.**
- **UBICNET-2019- 2nd EAI International Conference on Ubiquitous Communications and Network Computing**, “NB-FTBM Model for Entity Trust Evaluation in Vehicular Ad Hoc Network Security”, **Amrita Vishwa Vidyapeetham, Bangalore, India February 8-10, 2019.**

- **IntelliSig 2019 - International Conference on Intelligent Computing and Signal Processing**, “Various Security Strategies and Controller Placement Problem of Software Defined Network (SDN): A Study” **Organized by Department of Computer Science, Central University of Kerala, Kasaragod during 8-9 March, 2019.**
- **ICSTEM’19- International Conference on Science, Technology, Engineering and Management** “ Analysis of Routing Protocol and Its Topology In MANET”- **at KIT-Kalaighnar Karunanidhi Institute of Technology, Coimbatore, Tamilnadu, India, 22 - 23, March 2019.**
- **SocPros - 2018 - 8th International Conference on Soft Computing for Problem Solving**, “A Study on Intrusion Detection System of Mobile Ad-Hoc Network”, **at VIT-Vellore, 17-19 Dec 2018.**
- **IC-CIDS-2018- International Conference on Computational Intelligence And Data Science**, “An Overview Of Security Attack On Cognitive Radio Ad-Hoc Network (CRAHN)”- **at Department of Computer Studies, Sankara College of Science and Commerce, Coimbatore, 10th OCT2018.**
- **IGCCIA-2018 - International Conference on Management, Commerce, Law, Banking, Social Sciences, and Environmental**, “ Avoidance of Black Hole Attack In Wireless Network By Using Enhanced Advanced Encryption Standard Algorithm” **at Department of Commerce & Management VVM’s Shree Damodar College of Commerce & Economics , Margao, Goa, 17 Aug 2018.**
- **IEEE- The Ninth International Conference on Computing, Communication and Networking Technologies (9th, ICCCNT)**, “An Overview of Various Trust Models for VANET Security Establishment”, **at Indian Institute of Science (IISc), Bengaluru, India at July 10-12, 2018.**
- **IGCCIA-2018 - International Multidisciplinary Conference on Economics, Commerce, Management, Social Sciences, Humanities, Engineering and Environmental Concerns AND Language, Education, Literature and Culture**, “Performance Metrics of Cognitive Radio Ad-Hoc Network (CRAHN): A Survey”, **at Leelawati College of Commerce and Computer Studies, Pune, 11 June 2018.**
- **IGCCIA-2018 - International Multidisciplinary Conference on Economics, Commerce, Management, Social Sciences, Humanities, Engineering and Environmental Concerns AND Language, Education, Literature and Culture**, “ Ad-Hoc Network and Its Types – An Overview”, **at Leelawati College of Commerce and Computer Studies, Pune, 11 June 2018.**
- **ICITCSA’17- International Conference on Innovative Trends in Computer Science and Applications**, Volume –I, “An Overview: Basic Concept of Network Simulation Tools”- **at Pioneer College of Arts and Science, Coimbatore, ISBN-978-93-86176-49-3, 06th January 2017.**

- **ICCIDM-2016: Proceedings of the International Conference on Computational Intelligence in Data Mining (CIDM)**, “CSIP-Cuckoo Search Inspired Protocol for Routing in Cognitive Radio Ad Hoc Networks”, **Kalinga Institute of Industrial Technology (KIIT)**, ISBN: 9789811038730, pp.145-153, Odisha, India, 10-11 Dec 2016.
- **INC-TEST’16 - International Conference on Trending Researches in Engineering, Science & Technology-2016**, “A Note On: Cognitive Radio Issues, Challenges And Applications”, at **Institute of Engineering Research, Salem**, ISBN-978-93-86163-60-8, 30th September 2016.
- **ICEMS-2016- Proceedings International Conference on Recent Trends in Engineering and Material Sciences**, “FLIP: Frog Leap Inspired Protocol for Routing in Cognitive Radio Ad Hoc Networks”, at **Jaipur National University, Jaipur, India**, held on 17-19 March 2016.

NATIONAL CONFERENCE:

- **NCICBS - 2018-National Conference Instrumentation, Control and Biomedical Systems**, “A Survey on Classification of Routing Protocol in MANET: Proactive, Reactive, Hybrid”, pp.6, NCICB017, Karunya University, Coimbatore, 13 April 2018.
- **NCANA’15** Proceedings of the UGC Sponsored National Conference on Advanced Networking and Applications, “A Note On: Cognitive Radio and It Performance Tools” at PG & Research Department of Computer Science, Government Arts College, Udumalpet, 27th March 2015.

CONTACT ADDRESS:

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