



**Office Address**  
National Engineering College  
K.R.Nagar, Kovilpatti – 628503  
Tuticorin District, Tamilnadu, India

**Residential Address**  
6A/7 Vasantha Vihar  
Chidambara Nagar, Ilanji - 627805  
Tenkasi, Tamil Nadu

**Mail Address**  
[bparamasivan@yahoo.co.in](mailto:bparamasivan@yahoo.co.in)  
[hodcse@nec.edu.in](mailto:hodcse@nec.edu.in)

**Contact**  
+91 9442522764 (O)  
+91 9486453641 (P)

#### Education

2009

1994

1988

#### Experience

National Engineering College, Kovilpatti, Tamilnadu

2010 - Now

2009 - 2010

2008 - 2009

2004 - 2008

2000 - 2004

1989 - 2000

#### Doctor of Philosophy

*Information and Communication Engineering,  
Anna University Chennai, Chennai.*

#### Master of Engineering

*Computer Science and Engineering  
Jadavpur university, Calcutta*

#### Bachelor of Engineering

*Computer Science and Engineering  
Madurai Kamaraj University, Madurai*

*Professor and Head*

*Professor*

*Associate Professor*

*Assistant Professor*

*Senior Lecturer*

*Lecturer*

#### Funded Projects - Principal Investigator Ongoing

- DRDO, New Delhi sponsored funded project on “Studies in Cellular Automata with its Applications on Cryptography” worth Rs.12,19,500 – Duration: 20.09.2016 - 20.08.2018.
- NewGenIEDC, New Delhi sponsored funded project “Design of Braille Print Studio for Visually Impaired People” worth Rs.2,50,000 - Duration: 1 Year.

#### Consultancy Services

- Involved in the Tata Power Company Limited Strategic Division Engineering (SED), Bangalore consultancy work on “Services in the area of Intelligence”. Consultancy Budget: Rs.360000/-

#### Completed

- DRDO, New Delhi sponsored funded project on “Development of an Intrusion Detection System for Mobile Ad-hoc Networks using Game Theoretical Models” worth Rs. 27,19,000 – Duration:21.06.2011 – 20.06.2013.
- AICTE, New Delhi sponsored funded project on “Intrusion Prevention System Development for Ad hoc Network Security” worth Rs. 9,07,000 – Duration: 18.01.2012 – 17.01.2014.
- CSI, Chennai sponsored funded project on “Development of an Intelligent Irrigation System using Wireless Sensor Networks” worth Rs.50,000. – Duration: 01.06.2012 – 31.03.2013.
- Institution of Engineers (IE), Kolkata sponsored funded project on “Design and Development of an Intelligent Structural Health Monitoring System for a Simply Supported Bridge using Wireless Sensor Network” worth Rs.1,50,000. – Duration: 17.10.2012 – 16.10.2014.
- AICTE, New Delhi sponsored funded project under MODROBS Scheme for “Modernization of Common Computing Facility Lab and Establishment of Advanced Computing Environment” worth Rs.6,08,000.- Duration Date: 02.03.2013 – 02.03.2014.

#### Publications Details

*Paper Published in International/National Journals: 32*

#### Articles in Peer-Reviewed Journals (last 3 Years)

1. Design and implementation of an efficient attack resilient computation algorithm in WSN nodes.  
*Journal of Cluster Computing Springer*, p.1-11, DOI:10.1007/s10586-018-2147-6, 2018
2. Geographical angular zone based optimal resource allocation and efficient routing protocols for vehicular ad hoc networks  
*IET Intelligent Transport Systems*, Volume 12, Issue 3, April 2018, p. 242 – 250
3. Node Level Anomaly Mitigation Through Trustworthy Computation Based Election of Forwarding Nodes  
*Journal of Ovonic Research (JOR)*, ISSN : 1584-9953, vol. 13, no. 3, p 161 – 171.
4. Rule-Based Anomaly Detection Technique using Roaming Honeypots for Wireless Sensor Networks  
*ETRI Journal*, pp.1145-1151, Vol.38, No.6, December 2016
5. Load Balanced Clustering Technique in MANET using Genetic Algorithms  
*Defence Science Journal(DESIDOC)*, Vol. 66, No. 3, May 2016, pp. 251-258, DOI : 10.14429/dsj.66.9205
6. Defense against Sybil attacks and authentication for anonymous location based routing in MANET  
*The Journal of Mobile Communication, Computation and Information Springer*, ISSN 1022-0038, DOI 10.1007/s11276-015-1178-7

7. Development of a Secure Routing Protocol using Game Theory Model in Mobile Ad Hoc Networks  
*Journal of Communications and Networks*, Page No. 75 - 83, Vol.17, No.1, February 2015.
8. Enhancing secure routing in Mobile Ad Hoc Networks using a Dynamic Bayesian Signalling Game Model  
*(Elsevier) Journal of Computers and Electrical Engineering*, Page No. 301 - 313, Vol.41, March 2015.
9. Energy Efficient Routing Protocol for Wireless Sensor Networks using Dominating Set theory with Minimum cardinality Factor  
*Information – An International Inter disciplinary Journal*, Page No.:2279- 2288, Vol.17, No.6 (A),2014.
10. Energy Efficient low – Cost Virtual Backbone Construction for Optimal Routing in Wireless Sensor Networks  
*Journal of Mathematical Problems in Engineering*, Article ID: 360694, 7 Pages, June 2014.
11. Authenticated Group Communication to Mitigate Collusion Attack in Key Sharing  
*Information Technology Journal*, Page No. 28-39, Vol.12, Issue 1, February 2013.
12. Data Fusion model based distributed truncated greedy Techniques to improve. The coverage of Wireless sensor network  
*European Journal of Scientific Research*, Page No.:546-554, Vol.97, No.4, December 2013.
13. Energy efficient multipath data transfer scheme to mitigate false data injection attack in wireless sensor networks  
*(Elsevier) Journal of Computers and Electrical Engineering*, Page No.: 1867-1879 Vol.39, Issue 6, August 2013.
14. False data injection attack and its counter measures in wireless networks security  
*European Journal of Scientific Research*, Page No.: 248-257, Vol.82, No.2, December 2012.
15. Survey of data aggregation techniques using soft computing in wireless sensor networks  
*IET Information Security*, Page No.: 1-7, December 2012.
16. Fuzzy Logic based Performance Optimization with Data Aggregation in Wireless Sensor Networks  
*Procedia Engineering*, Page No.3331 –3336, Vol. 38, December 2012.
17. Enhanced Efficient Group Key Transfer Scheme for Wireless Sensor Networks  
*Scientific Research and Essays*, Page No. 4060-4070, Vol. 7, No.47, December 2012.

*Paper Published in International/National Conferences: 38*

International peer-reviewed conferences/proceedings (last 3 Years)

1. Trustworthy based Secure Communication for Mobile Adhoc Networks  
*International Conference on Advancement in Engineering, Applied Science and Management, CDAC, Mumbai, June 2017*
2. Game Theoretical Approach for RSU Access with Minimum Payoff in VANET  
*International Conference on Business Analytics and Intelligence 2016, Indian Institute of Science, Bangalore, December 2016.*
3. Augmented DTN based Energy Efficient Routing Protocol for Vehicular Ad hoc Networks  
*IEEE Sensors 2015, Busan, South Korea, November 2015.*
4. A Novel Trust based Routing Algorithm for Mobile Ad hoc Networks  
*Information Technology: Yesterday, Today and Tomorrow, DRDO, DESIDOC, New Delhi, February 2015.*
5. Enhancing Energy Efficiency in Mobile Adhoc Network using Agglomerative Hierarchical Clustering Technique  
*A Scholarly Conference on Emerging Technologies for Information Systems (ASCENT 2015), Kuala Lumpur, Malaysia, March 2015.*
6. Game Theoretical Computation based Energy Efficient Routing for Wireless Sensor Networks  
*International Conference on Eco-friendly Computing and Communication Systems, NITK, Mangalore, India, ISBN No.: 978-1-4799-7002-5, December 2014.*
7. A Novel Secure Data Aggregation Model for Wireless Sensor Networks using Fuzzy Logic  
*IEEE Sensors 2012, Taipei, Taiwan, Page No. 4060-4070, Vol. 7, No.47, October 2012.*
8. Reliable & Energy aware next hop selection scheme for wireless Sensor Networks  
*IEEE International Conference on Advanced Computing, Anna University Chennai, India, December 2012.*

### Membership in Professional Societies

- Senior Member in Institution of Electrical and Electronics Engineers (IEEE), USA.
- Fellow of Institution of Engineers (IE), Kolkatta.
- Life member in Computer Society of India (CSI), Mumbai.
- Life Member in Indian Society for Technical Education (ISTE), New Delhi.
- Chapter chair of IEEE Information Theory Society Chapter, Madras Section.
- Advisor of IEEE Computer Society Student Chapter.

**Sponsored Conference/FDTP/Seminar/Workshop/Training Programme Organized (last 4 years)**

<b>Programme Details</b>	<b>Sponsored Amt. (Rs.)</b>
AICTE, New Delhi Sponsored National Level Seminar on “Research Trends and Innovations in Vehicular Networking and Intelligent Vehicular Communication” - 12.10.2017 and 13.10.2017	1,00,000/-
CIIL Mysore Sponsored National Level Seminar on “Perspectives of HCI using Natural Language Processing” - 05.10.2016 – 07.10.2016	30,000/-
ISTE Sponsored Seminar on “Natural Language Processing” - 22.09.2016	5,000/-
IEEE-Information Theory Society (ITS) & NEC Science Maths Technology (SMT) Club jointly organized two days national level project exhibition PROEXPO’16 - 29.06.2016 and 30.06.2016	65,000/-
INSA New Delhi Sponsored National Level Seminar on “Research Avenues in Speckled Computing and Speck nets - A Futuristic Pervasive Revolution”- 23.07.2016 & 24.07.2016	30,000/-
IEEE ITS sponsored State level workshop “I-Smart” - 18.02.2016 & 19.02.2016	5,000/-
DBT Sponsored National Level Seminar on “Affective Brain Computer Interface” - 08.01.2016 & 09.01.2016	50,000/-
DST sponsored National Level workshop on “Advancements in Visual Sensor Network and its impact on public safety and security” - 08.01.2015 & 09.01.2015	30,000/-
CRSI sponsored National Level Instructional workshop on “Formal Methods in Cryptography” -08.01.2015 & 09.01.2015	40,000/-
EDI Gujarat Sponsored Three Days “Entrepreneurship Awareness Camp” - 29.12.2014 to 31.12.2014	60,000/-
IEEE Madras Section sponsored workshop on “Digital Animation Techniques - ANIMATE” - 24.09.2014 – 25.09.2014	5,000/-
ISTE-SRM University sponsored Short Term Training Programme on “High Speed Networks” -09.06.2014 to 16.06.2014	1,00,000/-
DBT sponsored National Level Seminar on “Recent Advances and Emerging Trends in Life Science Research in BIOCLOUD: Bioinformatics using Cloud Computing Technologies” - 20.09.2013 & 21.09.2013	50,000/-
DRDO sponsored National Level Seminar on “Language based Formal Methods and Verification Techniques for Security” - 02.08.2013 & 03.08.2013	30,000/-
Anna University Chennai sponsored one week Faculty Development Training Programme on “Theory of Computation” - 03.06.2013 to 10.06.13	80,000/-
AICTE sponsored National Level Seminar on “A hands on training on Latex Essentials for Beginners” - 14.06.2013 & 15.06.2013	60,000/-
CISCO Systems India Pvt. Ltd., Sponsored a One day Cisco Academy Meet on “Emerging Trends in Green Networking Technologies” -08.03.2013	50,000/-
IEEE, Madras Sponsored a Two day National Level FDP on “A Research Perspective issues on Human Computer Interaction = Ubiquitous + Pervasive + Haptic Technologies” -30.11.2012 & 31.11.2012	25,000/-
DAE-BRNS, Mumbai Sponsored a Two day National Level Seminar on “Research issues in Soft Computing Techniques for Nuclear Energy Systems” -28.09.2012 & 29.09.2012	60,000/-
TNSCST Sponsored Two day Awareness Programme on “Digital Animation Technologies” - 23.08.2012 & 24.08.2012	20,000/-
CSIR Sponsored a Two day National Level Seminar on “Semantic Information Retrieval from Medical Databases for Clinical Decision Support Systems” - 06.04.2012 & 07.04.2012	30,000/-
NBHM Sponsored a Two day National Level Seminar on “Game Theoretical Models for Problem solving in Wireless Networks” - 20.01.2012 & 21.01.2012	48,000/-
BRNS Sponsored a Two day National Level Seminar on “Research issues in Computer Simulation and Modeling for Advanced Nuclear Energy Systems” - 15.07.2011 & 16.07.2011	60,000/-
DRDO Sponsored a Two day National Level Seminar on “Research Challenges and Trends in intelligent web for information Retrieval” - 18.03.2011 & 19.03.2011	35,000/-
DST Sponsored a Two day National Level Seminar on “New Fangled Architecture - Spawning Network” - 18.02.2011 & 19.02.2011	50,000/-
CSIR Sponsored a Two day National Level Seminar on “Research Issues in Wearable Computing”- 28.01.2011 & 29.01.2011	30,000/-
<b>International Conference Organized</b>	
IEEE International conference on “Computing and Intelligent Data Engineering (ICCTIDE 2016)” - 07.01.2016 to 09.01.2016	2,60,000/-

<ul style="list-style-type: none"> <li>• Conference Technically Sponsored by <ul style="list-style-type: none"> <li>o IEEE Madras Section</li> <li>o IEEE Computer Society</li> <li>o IEEE Information Theory Society</li> </ul> </li> <li>• Conference Financially Sponsored by <ul style="list-style-type: none"> <li>o BRNS New Delhi</li> <li>o Tata Consultancy Services (TCS), Chennai</li> <li>o ISRO New Delhi</li> <li>o DBT New Delhi</li> </ul> </li> <li>• Fund Generated from GO and NGO Selected papers published in IEEE Digital Xplore.</li> <li>• Selected papers published in Annexure – II Journal.</li> <li>• More than 15 international experts and 50 national experts involved on face and off</li> <li>• face.</li> </ul>	
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#### Other FDTP/Seminar/Instructional course Organized (last 4 years)

- Anna University Chennai approved one week Faculty Development Training Programme on “Theory of Computation”.
- Anna University Chennai approved one week Faculty Development Training Programme on “Mobile and Pervasive Computing” - 11.06.14 to 18.06.14.
- IARCS technically sponsored two days instructional course on “Computational Complexity” - 27.09.2013 & 28.09.2013.
- A self sponsored technical seminar on “Imaging Arithmetic: Physics U Maths > Physics + Maths” delivered by Dr. Gaurav Sharma, Professor, Department of Electrical and Computer Engineering, University of Rochester, USA. - 29.08.2012.

#### Reviewer for Journal

- IEEE Sensors Journal, United States (IF:1.85).
- Computing and Informatics Journal, Slovakia, Europe (IF:1.254).
- Computer Networks and Communications, United States (IF:1.12).
- The Computer Journal, United Kingdom (IF:0.88).
- Security and Communication Networks Journal, Singapore (IF:0.433)

#### Member in Technical, Programme, Advisory and Review Committee

- Reviewer in International Conference on Engineering and Technology, 2018 (ICETECH18) Rathinam Technical Campus 14<sup>th</sup> and 15<sup>th</sup> March 2018.
- Advisory member and Reviewer for a fourth International Conference on Science Technology Engineering and Management (ICON STEM 2018) on March 23 & 24, 2018, Jeppiaar Engineering College, Chennai.
- Advisory/Technical member in International Conference on Advances in Energy-efficient Computing and Communication (ICAIECC-2018) on 1<sup>st</sup> and 2<sup>nd</sup> March 2018, St. Xavier’s Catholic College of Engineering, Kanniyakumari.
- Technical/Advisory Committee in International conference on “Vision Towards Emerging Trends in Communication and Networking (ViTECoN-2018)” during March 24-25, 2018. VITECON-2018, VIT University, Vellore
- 2<sup>nd</sup> IEEE International Conference on Soft-computing and Network Security (ICSNS 2018) during Feb. 14-16, 2018, SNS College of Technology, Coimbatore.
- Technical Advisory Committee member and Reviewer in Fourth International Conference on “Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB’18)” during 27<sup>th</sup> and 28<sup>th</sup> February 2018, Prathyusha Engineering College, Chennai.
- Advisory committee Member in sixth National Power Engineering Conference (NPEC-18) organized by Department of EEE, TCE Madurai during March 2018 in association with IEEE Podhigai subsection.
- Member in Advisory and Technical Committee in IEEE international Conference 2018, Rajalakshmi Institute of Technology, Chennai.
- Technical Review Committee Member in International Conference on “Information Engineering, Management and Security (ICIEMS 2015)” organized by IITM Research Park, Chennai on 19.12.2015.
- Programme Committee Member in International Conference on “Frontiers of Internet of Things (FIT 2014)” held at Taiwan during 04.12.2014 to 06.12.2014.
- Programme Committee Member in International Workshop on “Big Data Analytics for BioSecurity 2015” organized by CSIRO, Australia during 13.04.2015 to 17.04.2015.
- Technical Committee Member in 4<sup>th</sup> International Conference on “Wireless and Optical Communications” to be held at Chengdu, China during 06.06.2015 to 07.06.2015.

- Advisory Member for a International Journal of Recent Advances in Science and Engineering (ISRASE), Karnataka, India.

#### **Position Hold**

- **Co-ordinator** as Indian Institute of Bombay Remote Centre at National Engineering College, Kovilpatti, Tamilnadu
- **EXECOM (Executive Committee) Member**
  - IEEE Madras Section Chennai for the period of 2014-2016 and 2016-2018.
- **Chairman, IEEE ITS Society, IEEE Madras Section** from November 2015.
- **Recognised PhD Supervisor**
  - Anna University Chennai, Manonmaniam Sundaranar University Tirunelveli and Bharathiyar University Coimbatore.
  - No. of scholars completed PhD: 11
  - No. of scholars pursuing PhD: 10
- **Doctoral Committee Member and Expert Member for Thesis Correction**
  - Anna University Chennai, Manonmaniam Sundaranar University Tirunelveli and Bharathiyar University Coimbatore.
- **Board of Studies Expert Member**
  - In couple of Autonomous Engineering Colleges to formulate the curriculum and syllabus of Computer Science and Engineering Programme.

#### **Outside World Interaction and Travel Grant Received**

- Countries Visited: Taiwan, Dubai, Hong Kong, South Korea and Canada.
- Attended a international conference “IEEE Panel of Conference Organizers (POCO)” as a hosted attendee from Region 10, IEEE Madras Section held at Montreal, Canada from 28.07.2016 to 30.07.2016.

#### **Travel Grant**

- UGC New Delhi Sanctioned full travel grant amount for presentation of a research paper entitled “Augmented DTN based Energy Efficient Routing Protocol for Vehicular Ad hoc Networks” in the international conference IEEE Sensors 2015 held at Bexco, Busan, South Korea during 01.11.2015 to 04.11.2015.
- Received a travel grant from DST, New Delhi of Rs.58,950/- for presentation of a research paper entitled “A novel secure data aggregation model for wireless sensor networks using fuzzy logic” in the international conference of IEEE SENSORS 2012 held at Taipei, Taiwan during 28.10.2012 to 31.10.2012.

Signature