**CURRICULUM VITAE**

**Dr. S. Neduncheliyan BE., M.S (Engg.,), Ph.D, FIETE,MIET.,**
DEAN
School of Computer Science & Engineering,
Bharath Institute of Higher Education and Research Selaiyur
Chennai-600073

# Field of Experience

Wireless Sensor Networks, Wireless Communication, MANET, IOT and Robotics

# Funded Projects Research work

1. **Principal Investigator**: "Design and Integration of Automated Traffic Signal Controller Device" for Device Development Programme under Technological development programme, GOVERNMENT OF INDIA,MINISTRY OF SCIENCE & TECHNOLOGY, DEPARTMENT OF SCIENCE & TECHNOLOGY,TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD,NEW DELHI – 110 016, November 12,2020. **Rs.  41,29,000.00 (Awaiting Results)**

2. **Principal Investigator**: Design, Development and Deployment of Wireless Sensor Network For Detection of Landslides, Jaya Trust, Chennai: 1 year, June 2016-May 2017, and Rs.1,25,000.00(**Granted**)

3. **Principal Investigator :**  Project proposal on "Monopole Braoadband Flexible RFID Antenna "submitted to National Research Development Corporation(NRDC), Department of Science and Technology,9$^{th}$ November 2018,and Rs.5,00,000.00 **(Applied).**

4. **Principal Investigator :** Project proposal on "IOT Based Smart Solid Waste Management – Embedded with Microsensors" Submitted to Tamilnadu State Council for Science and Technology, and Rs.5,60,000.00. **(Applied).**

5. **Principal Investigator :** Funded Project Proposal on "Design and Implementation of IoT Based Smart Lighting and Smart Waste Management – Embedded with Microsensors" Submitting to **SERB/DST (CORE Project)** and Rs. 48,00,000.00 (**Applied**)

**RESEARCH PUBLICATIONS**

International Journal                      : 31

International Conferences          : 46

National Conferences              : 23

**Total Research Paper published    : 100**

# Google Scholar

|  | **ALL** | **Since 2013** |
|---|---|---|
| **Citation** | **117** | **101** |
| **h – index** | **5** | **4** |
| **i10 – index** | **5** | **3** |

# *International Journal*

1. Ms.Sonali, **Dr.S.Neduncheliyan**," A Studies of Deep Learning Approach in Health care Industry", GIS SCIENCE JOURNAL(An UGC-CARE Approved Group II Journal) , ISSN NO 1869-9391,Volume 7, Issue 10, pp635-645, October, 2020.

2. Radhakrishnan, Dr.S.Neduncheliyan ,"An Improved Downlink Packet Scheduling Algorithm for Delay Sensitive Devices in Both H2H and M2M Communications in LTE- Advanced Networks "is  published in International Journal of Enterprise Network Management. **(Scopus Index** Journal)

3. Balaji Vijayan Venkateswarul, **Neduncheliyan Subbu**,Sivakumar Ramamoorthy,"An Efficient Routing Protocol Based on Polar Tracing function for Underwater Wireless Sensor Networks for Mobility health Monitoring system Application"  Journal of Medical System, Springer, Vol.43, issue no.7,july 2019. **(SCI Journal)**

4. V.Priya, S.Neduncheliyan," Prediction of Proganastic Air quality on Foundry Explore Exhaust of Pollution using Deep Learning", International Journal of Advanced Science and Technology, Vol.29, No.7 (2020) pp. 3689 – 3698. Scopus Indexed Journal.

5. T.Deepak, Dr.S.Neduncheliyan ,"A Hybrid High Relevant Low Redundant Feature Selection Method For The Classification of Nodes in Mobile Ad Hoc Networks", International Journal for Research in Engineering Application & Management (IJREAM), ISSN : 2454-9150 Vol-04, Issue-05, Aug 2018 **Scopus Index** Journal

6. K.Rajeswari, S.Neduncheliyan," Gravitational Search Algorithm based Fault Tolerance in Wireless Sensor

Network", International Journal of Pure and Applied Mathematics, Volume . 118, No.8, 2018, pp: 643 – 649, ISSN : 1314 – 3395. **Scopus Index** Journal

7. T.Deepak, Dr.S.Neduncheliyan," Comparative Study of Energy Efficient MAC Protocol with Chennal Aware Packet Scheduling in MANET", International Journal of Engineering and Technology, Volume 7(9), PP. 16-21, 2018, UAE, **SCOPUS** Journal.

8. Radhakrishnan, Dr.S.Neduncheliyan," **A Novel Fuzzy Scheduler for Cell-Edge Users in LTE-Advanced Networks using Voronoi Algorithm" ,** International Journal of Cluster Computing, **Springer (SCI Journal)**

9. T.Deepak, Dr.S.Neduncheliayan**," Security scheme in MAC protocol Based Attack Detection Model using Cryptography and Basiyan Method**", International Journal of  Pure and Applied Mathematics(IJPAM), Volume 116, No.21 , 2017, pp 459-467, ISSN :1311-8080.(**Scopus Journal**)

10. K.Rajeswari, Dr.S.Neduncheliyan,**'Genetic Algorithm based Fault Tolerant Clustering in Wireless Sensor Network**", Institute of Engineering and Technology (IET Communication), Vol.11, pp. ( **SCI Journal**)

11. Balaji Vijayan.V**, S.Neduncheliyan**, Suguna Ramadass," **A Review on Routing Protocols of Underwater Wireless Sensor Networks**", International Journal of Computer Science and Information Security( IJSIS), Vol .14,ISSN 1947-5500, PP 28-33. ( **Scopus Index Journal)**

12. Balaji Vijayan.V**, S.Neduncheliyan**, Suguna Ramadass," An Efficient Routing Based on Geospatial Division for Underwater Wireless Sensor Networks", Asian Journal of Research in Social Sciences and Humanities,ISSN:2249 – 7315(ONLINE)2250 – 1665.  . (SCOPUS **INDEX JOURNAL**)

13. **S.Neduncheliyan**, A.H.Fareen Farzana," Ant-Based Routing and QOS-Effective Data Collection for Mobile Wireless Sensor Network", International Journal of Wireless Networks, **Springer Link**, pp 1-11, 19th March 2016**. (SCI JOURNAL)**

14. **S.Neduncheliyan,** Gobinathan, Divya," Fuzzy Bee Segmentation –meta Heuristic Approach for the Medical Image Segmentation Problem", International Journal of Current Signal Transduction Theraphy, Volume 11, Number 2, August 2016, PP 130 – 136(7), Publisher : Bentham Science. **(SCI Journal**)

15. S. Radhakrishnan, **Dr. S. Neduncheliyan**, Dr.K.K.Thyagharajan," A Review of Downlink Packet Scheduling Algorithms for Real Time Traffic in LTE-Advanced Networks" Indian Journal of Science and Technology, Volume 9, Issue 4, January 2016, ISSN : 0974-5645. (SCOPUS **INDEX JOURNAL**)

16. T.Dheepak and **Dr.S.Neduncheliyan,"** Research on Energy Efficient in MANET using MAC Protocol – A Survey" International Journal of Applied Engineering Research( IJAER), Volume 10, Number 11(2015) pp.29725-29731, ISSN: 0973-4562. ( **SCOPUS INDEX JOURNAL**)

17. K.Kalaivani, Mukta Jagdish, **S.Neduncheliyan**," Monitoring Change Detection by Altering MRF Energy Function in SAR for Disaster Analysis" International Journal of Applied Engineering Research( IJAER)", Volume 10, Number 3( 2015), PP. 6369-6378, ISSN: 0973-4562. ( **SCOPUS INDEX JOURNAL**)

18. **S.Neduncheliyan,** Reshma.M.R, Kalaivani.K," A survey on Multimedia Hybrid and Collaborative Recommendation Based on Cloud", International Journal of Advanced Computer Technology(IJACT), Volume 4, Number 1, pp. 14-20, February **2015**. ISSN:2319-7900. (**SCOPUS INDEX JOURNAL**)

19. **S.Neduncheliyan,** Kumari Priya, K.S.Archana**,** "Bleeding Detection Through Wireless Capsule Endoscopy(WCE)", International Journal of Advanced Computer Technology(IJACT), Volume 4, Number 1, pp. 5-13, February **2015**. ISSN:2319-7900. (**SCOPUS INDEX JOURNAL** .)

20. Samantha.V, Senthil Kumar.j, Latha.M, **Dr.S.Neduncheliyan,"** Cup Disc along with Blood and Optic Nerve Segmentation using PCA nad Morphology method for Detection of Glaucoma", International Journal of Innovative Research & Studies( IJIRS), Vol:4, Issue 3, pp. 148-155, March 2015, ISSN : 2319-9725(**SCOPUS INDEX JOURNAL** .)

21. **S.Neduncheliyan**, S.Muthukarpagam and V.Niveditta, "Design issues, Topology issues, Quality of Service support for Wireless Sensor Networks : Survey and Research Challenges", International Journal of Futuristic Computer Applications, Duke University, NC, USA, 2010. (**SCOPUS INDEX JOURNAL** .)

22. **Neduncheliyan.S,** Umapathy.M, Ezhilarasi.D, " Simultaneous Periodic output feedback control for piezoelectric Actuated structures using Interval Methods", International Journal on Smart Sensing and Intelligent Systems, Vol. 2, No.3, pp.417-431, September 2009, New Zealand. (**SCOPUS INDEX JOURNAL** .)

23. M. Tamilselvi and **Neduncheliyan.S**, "Dynamic Aspects of Target Trailing in Mobile Sensor Networks", International Journal of Computational Intelligence Research & Applications, Vol.3,No.1, January-June 2009, pp. 151-155.

24. Firos. A, and **Neduncheliyan.S**, "Tracing Multiple attackers with trust-based deterministic packet marking(t-DPM)", International Journal of Computing and Mathematical Applications, Vol.2,No.1-2, January-December, 2008, pp.103-112.

25. **Neduncheliyan.S** and Umapathy.M, "Robust controller design for two-time-scale uncertain system using interval method", International Journal of Systems Simulation, Vol.2 No.2 pp.107-126, December 2008, Hong Kong.

26. R.Maheswari, M.Umapathy & **Neduncheliyan.S**, "Design of PID, Fuzzy and Fuzzy-PID gain conditioner for Piezo actuated structures", International Journal of Systems Simulation, Vol.2 No.2 pp.107-126, December 2008, Hong Kong.

27. **Neduncheliyan.S**, M.Umapathy, **"Design State Feedback Controller for Smart Cantilever Beam using Interval Method"** , **National Aeronautics and Space Administration** ( **NASA**), Langfey Research Center, Scientific and Technical Aerospace Reports, (STAR), Vol. 46, No. 9, May 12, 2008, USA. (**SCOPUS INDEX JOURNAL** .)

28. **Neduncheliyan.S,** D.Ezhilarasi, M.Umapathy, B.Vasuki, "Control of Piezo Actuated Structures using Interval Method", International Journal of Instrumentation Science and Technology **SCI Journal**, 35, 385-397,2007 Taylor & Francis Group, LLC. U.K.**.**

29. **Neduncheliyan.S**, M.Umapathy, **"**Design State Feedback Controller for Smart Cantilever Beam using Interval Method", An International Journal of COMADEM, U.K, Vol.10, (NO.2) April 2007, ISSN 1363-7681 pp.9-12.

30. **Neduncheliyan.S,** "Intelligence Software Designed for Industrial Robot to Control Grasping of an Object", An International Research Journal of Science, Vol.22E, (NO.1) 2003 **P**.27-37.

31. **Neduncheliyan.S**, "Simulation of Optimum Time Algorithm for Rv M2 DOF Robot"**,** An International Research Journal of Science, Vol.21E, (NO.2) 2002; P.419-430.

# *International Conferences*

**2019(1)**

1. **Prashant,B. Wakhare, S.Neduncheliyan,"** Automatic Irrigation system Based on Internet of Things for Crop Yield Prediction", International Conference on Emerging Smart Computing and Informatics, AISSMS Institute of Information Technology, Pune, India. March 12-14, 2020. It s Published in IEEE Explorer.

2. Dr.Indhumathy, Dr.S.Neduncheliyan," OctgonalNantenna for Space Research Application" in Proceedings of IEEE International Conference on Smart Structures and Systems-icsss'19, Saveetha University, 18th March 2019.

**2016(10)**

1. **S.Neduncheliyan**, A.Sudha, M.P.Vishnu," Energy Conservation Using WSN and Communication Devices", International Conference on Computing, Communication, Nanophotonics, Nanomaterials & Nanotechnology(I2C4N-2K16), Thiruchur, Kerala, India, April 9th 2016.

2. **S.Neduncheliyan,** Radhakrishnan," A Novel Fuzzy Scheduler for Downlink Packet Scheduling by Using Carrier Aggregation and MIMO Features in LTE-Advanced Networks", 2nd International Conference on Electrical, Electronics & Computer Science (ICEECE-2016) ON 22nd & 23rd March – 2016, Vivekananda College of Engineering for Women, Tiruchengode, Namakkal Dist, India.

3. **S.Neduncheliyan ,** Sangamithrai.K, Saleem Babu," A Biometric Remote Authentication Using Steganography Techniques", TEQIP-II Sponsored International Conference on Distributed Intelligent Computing -2016, Organized by Pondicherry Central University, Pondicherry, 9th March 2016.

4. **S.Neduncheliyan ,** Geetha.G, Sundararaju.G**,**" Improving the resource allocation in virtual machine using bucket-code learning algorithm with less power and energy consumption" , TEQIP-II Sponsored International Conference on Distributed Intelligent Computing -2016, Organized by Pondicherry Central University, Pondicherry, 9th March 2016.

5. **S.Neduncheliyan ,**R.Ramani Priya, Jebamalar Tamilselvi.J**,** "Knowledge sharing by finding better experts in collaborative Environment", TEQIP-II Sponsored International Conference on Distributed Intelligent Computing -2016, Organized by Pondicherry Central University, Pondicherry, 9th March 2016.

6. **S.Neduncheliyan ,**Divya.V, M.Kumaran**,** " Detection of clone Node in wireless sensor network using chord algorithm and witness node Distribution", TEQIP-II Sponsored International Conference on Distributed Intelligent Computing -2016, Organized by Pondicherry Central University, Pondicherry, 9th March 2016.

7. **S.Neduncheliyan,** Sowmya.C, Bharathi mohan.G**,**" Behaviour Rule Specification based Intrusion Detection on Cloud based Medical Records", TEQIP-II Sponsored International Conference on Distributed Intelligent Computing -2016, Organized by Pondicherry Central University, Pondicherry, 9th March 2016.

8. **S.Neduncheliyan, "** Design and Implementation of hand wave and voice recognition for alternatively Abled person using hand gesture", International conference on Cutting Edge Technologies in Computing and Bioinformatics ( INCCETICB16), Organized by Department of Computer Science and Engineering , Sri Ram Engineering College held on 24th March 2016.

9. **S.Neduncheliyan,"**RAQ: Fast Approach to Range Aggregate Queries in Big Data Environment", International conference on Cutting Edge Technologies in Computing and Bioinformatics ( INCCETICB16), Organized by Department of Computer Science and Engineering , Sri Ram Engineering College held on 24th March 2016.

10. **S.Neduncheliyan**, Swathi.N, Shyamala.L," Design and Development of Touch Down Aviation System for the Airstrip", International Conference on Frontiers in Applied Sciences and Computer Technology(FACT'16), National Institute of Technology, Tiruchirapalli, March 18th & 19th 2016.


## 2015(5)


1. S.Neduncheliyan, K.Keerthana, K.Gomathi, J.Semmaneri," A Survey of Proposed Indian Regulatory Complaint System", 4th International Conference of Contemporary Engineering and Technology -2015, Organized by OSIET in Sri Ramanujar Engineering College, Chennai-127, India, 15th March 2015.

2. S.Neduncheliyan, S.Abhinav, K.Anantha Varadarajan, S.Aravindan, L.Nethaji," Research on Service Recommendation Application with Big Data Using HADOOP- A Survey", 4th International Conference of Contemporary Engineering and Technology -2015, Organized by OSIET in Sri Ramanujar Engineering College, Chennai-127, India, 15th March 2015.

3. S.Neduncheliyan, Santhini.R, Meenakshi.B,Ranjitha.J, M.Prasanna Kumar," A Judgement Support Tool for the Repilse Rate Control of Aerodrome Departures", 4th International Conference of Contemporary Engineering and Technology -2015, Organized by OSIET in Sri Ramanujar Engineering College, Chennai-127, India, 15th March 2015.

4. S.Neduncheliyan, V.Madhurasumana, P.Anitha, M.Prasanna kumar," Research on the development of Grocery Planning Application for Public Using Android – A Survey", 5th International Conference on Science and Innovative Engineering-2015, Organized by OSIET in Jawahar Engineering College, Chennai-93, India, 5th April, 2015.

5. **S.Neduncheliyan**, K.Arun raj, B.Kirubakaran, C.Jeyakumar, M.Prasanna kumar," A Survey of Research on Civil Supplies for Public Distribution System", 4th International Conference of Contemporary Engineering and Technology -2015, Organized by OSIET in Sri Ramanujar Engineering College, Chennai-127, India, 15th March 2015.

**2010(3)**

6. G.Suganya[1] **S.Neduncheliyan**[2] "A Study of Object Oriented Testing Techniques: Survey and Challenges" International Conference on Innovative Computing Technology(ICICT-2010), organized by Department of Computer Science and Engineering, M.Kumarasamy College of Engineering, Karur-639113, Tamilnadu, India, February 12-13, 2010. http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?reload=true&punumber=5433811

7. J.Aarthy, A. Anita Rani, **S.Neduncheliyan**, "SECURITY AND PRIVACY OF SENSOR NETWORKS AND ROUTING PROTOCOLS IN WSN: A SURVEY", International Conference on Innovative Research in Engineering and Technology (ICIRET-2010), Park College of Engineering and Technology, Coimbatore-641 659, India, August 12-14,2010.

8. [1]S.Muthukarpagam, [2]V.Niveditta, [3]D.Kanakapriya, **[4]S.Neduncheliyan**, " Modeling and Simulation for Fire Detection and Escape Path Construction with Wireless Sensor Networks", International Conference on System Dynamics and Control,(ICSDC-2010),Organized by Department of Instrumentation & Control Engineering, MIT, Manipal – 576104,Karnataka, India, 19th – 22nd August 2010.

**2009(7)**

9. S.Muthukarpagam and **S.Neduncheliyan**, "Deploying Wireless Sensor Networks for Tracking and Monitoring Systems – A Survey", An International Conference on Innovative Computing, Information and Communication Technology(ICICT-09) Chennai, TamilNadu, India., Dec 16-18, 2009.

10. A.Abdulla Javeed Hassan, S.Sivaranjani, S.Muthukarpagam, **S.Neduncheliyan,"**Studies on Security Problems and Solutions for MANET Applications", An International Conference on Innovative Computing, Information and Communication Technology(ICICT-09) Chennai, TamilNadu, India., Dec 16-18, 2009.

11. P.Shanti, **Neduncheliyan.S**, R.Sumathi,"Studies on High-Speed Data Transfer Services using Grid FTP ", An International Conference on Optoelectronics, Information and Communication Technologies (ICOICT 2009) Trivandrum, Kerala , India , 26-27 February 2009.

12. Tamil Selvi. M , **Neduncheliyan.S**, " An object Trailing in wireless networks using Bayesian estimation approach", International Conference on Mathematics and Computer Science( ICMCS-2009), Loyola College, Chennai, India, during $5^{th}$ -$6^{th}$ January, 2009.

13. Tamil Selvi. M , **Neduncheliyan.S**, "Mobility Management for Object Trailing in Mobile Networks", An International Conference on Optoelectronics, Information and Communication Technologies (ICOICT 2009) Trivandrum, Kerala , India , 26-27 February 2009.

14. **Neduncheliyan.S,** Muthukarpagam.S, "Studies on Mobile Computing using GPS for Earthquake, Tsunami Early Warning Systems and Volcanic", An International Conference on Optoelectronics, Information and Communication Technologies (ICOICT 2009) Trivandrum, Kerala , India , 26-27 February 2009.

15. S.Sudha, **Neduncheliyan.S**,"Secured Semantic Oriented Service for M-Commerce Application", An International Conference on Optoelectronics, Information and Communication Technologies (ICOICT 2009) Trivandrum, Kerala , India , 26-27 February 2009.

**2008(5)**

16. Senthamarai.T**, Neduncheliyan.S , "** Enhanced hybrid routing protocol for MANET", at International Conference on Resource Utilization and Intelligent System ( INCRUIS-2008), Konku Engineering College, Erode, India, during January 3-5, 2008.

17. **Neduncheliyan.S**, Kanagapriya. D, Muthukarpagam.S, " Integrated ERP Implementation for oil Industry in Solvent extraction process" , International Conference on Advanced Computing and Communication

Technologies for High Performance Applications (ICACCTHPA-08), Federal Institute of Science and Technology, Cochin, Kerala, India, during 24$^{th}$ -26$^{th}$ September, 2008.

18. **Neduncheliyan.S** , Muthukarpagam.S, Kanagapriya. D, "Integrating and mapping static data into dynamic for computer application using Geographical Information System", International Conference on Advanced Computing and Communication Technologies for High Performance Applications (ICACCTHPA-08), Federal Institute of Science and Technology, Cochin, Kerala, India, during 24$^{th}$ -26$^{th}$ September, 2008.

19. **Neduncheliyan. S,** Farhana.G, Angeline Priyadharshni . J, Arthipriya. S, " Studies on prevention methodology for Cyber Crime, ID theft and Cyber Terrorism", International Conference on Advanced Computing and Communication Technologies for High Performance Applications (ICACCTHPA-08), Federal Institute of Science and Technology, Cochin, Kerala, India, during 24$^{th}$ -26$^{th}$ September, 2008.

20. **Neduncheliyan.S** , Kannan.R, Giri. B, Karthikeyan. A, " A study of improving human-machine interaction and semi-autonomous navigation of robot for outdoor application", an International symposium on Measurements and Control in Robotics( ISMCR-08), Nimhans Convention Center, Bangalore, India, during 4$^{th}$ -6$^{th}$ September, 2008.

**2007 ( 7 )**

21. **Neduncheliyan.S**, K.Bakiya, "Enhancement Towards Videoconferencing in Itinerant Devices Through Video-Enabled Xvr,**"** at International Conference on Advanced Computing and Communication (ICACC-2007), Sethu Institute of Technology, Madurai**,** India, during Feb 9$^{th}$ and 10$^{th}$, 2007.

22. **Neduncheliyan.S**, M.Umapathy, "Robust State Feedback Controller for Interval System using Kharitonov's Polynomials" at International Conference on Robotics Vision and Information and Signal Processing(ROVISP 2007), **Penang**, **Malaysia,** on 28$^{nd}$ – 30$^{th}$ November 2007.

23. **Neduncheliyan.S,** T.Sreedhar, "Exploiting Clusters for Authentication in Ad hoc Networks" at International Conference on Robotics Vision and Information and Signal Processing(ROVISP 2007), **Penang**, **Malaysia**, on 28$^{nd}$ – 30$^{th}$ November 2007.

24. **Neduncheliyan.S**, N.Senthil Selvan,"Denial-of-Service Resistance and Delay Optimization in Multicast Authentication" at International Conference on Robotics Vision and Information and Signal Processing(ROVISP 2007), **Penang**, **Malaysia**, on 28$^{nd}$ – 30$^{th}$ November 2007.

25. **Neduncheliyan.S**, Pramod SS Suman, ''Predictive Job Scheduling in a Connection Limited System using Parallel Genetic Algorithm" at International Conference on  Intelligent & Advanced Systems ( ICIAS 2007),

**Kuala Lumpur, Malaysia**, on 25$^{th}$ – 28$^{th}$ November 2007.

26. **Neduncheliyan.S**, T. Manjunath, "Enhanced Protocols for Pedagogical Through Mobile Learning" at International Conference on Intelligent & Advanced Systems ( ICIAS 2007), **Kuala Lumpur, Malaysia,** on 25$^{th}$ – 28$^{th}$ November 2007

27. **Neduncheliyan.S**, M.Umapathy, "Design of state feedback controller for smart cantilever beamRobust State Feedback Controller for Interval System using Kharitonov's Polynomials" at International Conference on (TIMA 2007), **National Institute of Technology**, Tiruchirapalli, India on 4$^{th}$ -6$^{th}$ January 2007.

### 2006 ( 1 )

28. **Neduncheliyan.S**, K.Bakiya, " Mobile Learning : The next evolution of Education**"** ICSSR Sponsored International Conference on socially relevant higher education in India (SRHEI-2006), at Bodinayakanur, Cardamom planters, India, during 21 –23 Feb 2006.

### 2005 ( 3 )

29. R.Rahuveer, **Neduncheliyan.S**, " Interactive Intelligent Information Retrieval System" at International Conference on Intelligent Systems(ICIS-2005), **Kuala Lumpur, Malaysia**, on 1 –3 December 2005.

30. M.Umapathy, **Neduncheliyan.S** " Design and Implementation of Simultaneous Fast Output Sampling Feedback Control Using Programmable Logic Controller**"** at International Conference on Intelligent Systems(ICIS 2005), **Kuala Lumpur, Malaysia**, on 1 –3 December 2005.

31. M.Umapathy, **Neduncheliyan.S ,"** Design and Implementation of Periodic Output Feedback Control Using Programmable Logic Controller**"** at International Conference on Intelligent Systems( ICIS-2005), **Kuala Lumpur, Malaysia,** on 1 –3 December 2005.

### 2003(1)

32. **Neduncheliyan.S**, S.Chandrasekar, K.Imaan, ' A Methodology for Non – Linear Error Analysis of the five DOF Robot Using Artificial Neural Network' at International Conference on Robotics Vision and Information and Signal Processing(ROVISP 2003), **Penang, Malaysia**, on 22$^{nd}$ – 24$^{th}$ January 2003.

### 1999 ( 1 )

33. **Neduncheliyan.S,** Othman bin Sidek, ' Artificial Intelligence Based Software for Path Analysis of Robot by Simulation and Control of Grasping an Object' at International Conference on Robotics Vision and Parallel Processing for Automation, (ROVPIA'99), **Ipoh, Perak, Malaysia,** which had been published on July 1999

# *National Conferences*

## 2009(1)

1. Muthukarpagam.S, **Neduncheliyan.S**, " A Real Class Room Environment for E-Learners using ER – Technology", at National Conference on Impact of Virtual Reality , SNMV College of Arts and Science, Coimbatore-21, Tamilnadu, during 11th and 12th February,2009

## 2008(2)

2. **Neduncheliyan.S**, Arthi.S, Mary Jennifer.L." An Overview of IEEE 802.16 standards for wireless networking market", at National Conference on Emerging Trends in Information Technology ( IT ELICIT'08) , Nadar Saraswathi College of Arts & Science, Theni , Tamilnadu, during 26th -27th August 2008.

3. G.Sindhuja, R. Saranya, **Neduncheliyan.S,"** Studies on Virtual Reality System for Realistic Model of Virtual World", at National Conference on Emerging Trends in Information Technology ( IT ELICIT'08) , Nadar Saraswathi College of Arts & Science, Theni , Tamilnadu, during 26th -27th August 2008.

## 2007( 8 )

4. **Bindhu.S, Neduncheliyan.S**, "Cost effective distributed protocols for dynamic peer groups**"** at National Conference on Cyber Crime & Security Management ( CCSM )conducted by Kongu Engineering College, Perundurai,Erode, Tamilnadu**,** India, 2007.

5. K.Asir, **Neduncheliyan.S**, "ANTAM: Anonymity Avoidance in MANET using Identity-Free and On-Demand routing Scheme**"** at National Conference on Cyber Crime & Security Management ( CCSM ) conducted by Kongu Engineering College, Perundurai,Erode, Tamilnadu, India, 2007.

6. J. Sathya parkavi**, Neduncheliyan.S,** "Enhanced Topology Information Propagation Protocol for Inter domain Routing" National Conference on Cyber Crime & Security Management ( CCSM )  conducted by Kongu Engineering College, Perundurai,Erode, Tamilnadu, India, 2007.

7. T. Senthamarai**, Neduncheliyan.S**, "MHR Protocol for MANET" National Conference on Cyber Crime & Security Management ( CCSM )  conducted by Kongu Engineering College, Perundurai,Erode, Tamilnadu, India, 2007.

8.  S.Baskar**, Neduncheliyan.S**, **"**Distributed Token Circulation for Total Ordering of Message in Group Communication" at National Conference on EMET'07, Organized by Oxford Engineering College, Tiruchirappalli, Tamil nadu, India, during 05 April 2007.

9.  S.Firos, **Neduncheliyan.S**, "Tracing Multiple Attackers with Trust based Deterministic Packet Marking(TDPM)" at Indian Conference on Intelligent Systems(ICIS'07), Organized by DMI College of Engineering, Chennai, Tamil nadu, India, during 19-20 January 2007.

10. **Neduncheliyan.S**, K.Bakiya, **"**A New Intelligent Agent for Information Reclamation" at National Conference on Intelligent System, Organized by DMI college of Engineering, Chennai, Tamil nadu, India, during 19-20 January 2007.

11. **Neduncheliyan**.S, K.Bakiya, **"**An Intelligent Mobile Agents for Pedagogical through Mobile Technology" at National Conference on Emerging Enterprise Applications, Organized by St. Joseph College of Engineering, Chennai, Tamil nadu, India, during 31$^{st}$ January 2007.

**2006( 11 )**

12.  **Neduncheliyan.S**, K.Bakiya, "An Image Recognition using Pulse Coupled Neural Networks" at National Conference on Recent trends in NATCON'06, Organized by NURUL ISLAM COLLEGE OF ENGINEERING, NAGARKOVIL, Tamil nadu, India, 2006.

13. **Neduncheliyan.S**, K.Bakiya, "JAVA-XSC; A Platform Independent programming system for scientific computation**",** National Conference Organized by Dr.Mahalingam Engineering College, Pollachi, Tamil nadu, India, 2006.

14. **Neduncheliyan.S**, K.Bakiya, 'Prudent Security for Email using Secure Shell with Tunnels**'** at National Conference in NCRTAC'06, Organized by SNS  COLLEGE OF ENGINEERING & TECHNOLOGY, COIMBATORE, Tamil nadu, India, 2006.

15. Senthil selvan**, Neduncheliyan.S, "**Denial of Service Resistance and Delay Optimization in Multicast Authentication throughout Multigrade Security" at National Conference on Cryptography and Network Security, Organized by Karpagam Arts and Science College, Coimbatore, Tamil nadu**,** India, during 22-23 September 2006.

16. Sreedhar**, Neduncheliyan.S "**Defending Against Denial of Service in Secure Group Communication" at National Conference on Cryptography and Network Security, Organized by Karpagam Arts and Science College, Coimbatore, Tamil nadu, India, during 22-23 September 2006.

17. **Neduncheliyan.S,** , "A Novel secure authentication protocol based on cluster for AD HOC Networks" at National Conference on Cryptography and Network Security NCCNS '06 conducted by Karpagam Arts and Science College, Coimbatore, Tamilnadu, India, 2006.

18. Baskaran.D**, Neduncheliyan.S**, "A Novel secure communication protocol for ad hoc networks [SCP]" , National Conference on Recent Advances in Computing NCRAC-2006" conducted by Sri Krishna College of Engineering and Technology, Coimbatore, Tamilnadu, India, 2006.

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21. **Neduncheliyan.S**, "Security Management for Database Administration" at National Conference on Recent trends in DBMS Concepts and Practice, Organized by NMAM Institute of Technology, Nitte-574110, Karnataka, India**,** 2002.

22. **Neduncheliyan.S,** " Information Technology Education and Employment – Its Economics and Statistics" at National Conference on National Technical Manpower Information System, Organized by Institute of Applied Manpower Research, New Delhi and In association with Board of Apprenticeship Training, Chennai**,** India, which had been published on 22-23 February, 2001

# Doctoral Students (Ph.D.):  Awarded (6),Ongoing (5)

| Students | Dissertation Title | Status | University | Current Position |
|---|---|---|---|---|
| Mr.Balaji | An Efficient RoutingProtocol Based on Geospatial Division for Underwater Wireless Sensor Networks. | Awarded | Anna University<br><br>Chennai -25 | Assist. Professor, AMS Engineering College, Chennai. Since 2014 |

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|---|---|---|---|---|
| Mr.Radhakrishnan | e Fuzzy Scheduler for Cell-Edge U LTE- Advanced Networks using V Algorithm | Awarded | Anna University Chennai-25 | Assist.Professor, St.Paul College og Engineering and Technology, Tindivanam, Tamilnadu. Since 1995 |
| Ms. K.Rajeswari | Genetic Algorithm based Fault Tolerant Clustering in Wireless Sensor Network | Awarded | Anna University Chennai-25 | Assist. Professor, AMS Engineering College, Chennai. Since 2009 |
| Ms. A.H.Fareen Farzana | Ant-based routing and QoS-effective data collection for mobile wireless sensor network | Awarded | Anna University Chennai-25 | Assist. Professor, AMS Engineering College, Chennai. Since 2009 |
| Mr.Gopi | Fuzzy Bee Segmentation Metaheuristic Approach for the Medical Image Problem | Awarded | Anna University Chennai-25 | Assist.Professor, Indra Institute of Engineering and Technology, Tiruvallur. Since 2014 |
| Mr.Deepak | Energy Level Maximized and ecurity Issue in MANET Using MAC Protocol | Awarded | Bharathiyar University, Coimbatore | Assist.Professor Bharathidasan University, Perambalur, Trichy. Since 2014 |
| Mr.Prashant Wakhare | An Internet of Thing (IoT) ed Automated Irrigation and Plant ease Control System Using Deep Learning Algorithms | Ongoing | Bharath Institute of Higher Education and Research | Asst.Professor Pune Maharatshra |
| Mr.P.Jagadish Kumar | A Smart Enhanced IoT Based Stroke Detection and agnose Using Deep learning Approach | Ongoing | Bharath Institute of Higher Education and Research | Asst. Professor AVN Institute of Engg and Tech, Hyderabad |
| Ms.Josephine Nijofi Mactina F | A HEURISTIC APPROACH R RECOGNISING DIFFERENT DENTISTRY ISSUES FROM DIFFERENT RADIOGRAMS ASED ON DEEP LEARNING | Ongoing | Bharath Institute of Higher Education and | Asst.Professor Meenatchi Engineering College, Chennai |

| | | | Research | |
|---|---|---|---|---|
| Ms.Sonali R.Nalamwar/D19 CS 512 | Design of Classifier for etection of Cardiovascular sease Using Deep Learning | Ongoing | Bharath Institute of Higher Education and Research | Asst. Professor Pune Mharatshra |
| Ms.Priya.S | PROGNASTIC VEHICLE ALYSIS ON ATS TECHNIQUES R REINFORCEMENT ISSUES ASED ON DEEP LEARNING | Ongoing | Bharath Institute of Higher Education and Research | Asst. Professor Saveetha University Chennai |