

## BIO DATA



- I. *Name* : **Dr. S. KUPPUSWAMI**
- II. *Present Designation* : Prof/CSE
- III. *Address (Office)* : **Vivekanandha college of Engg.,  
Elayampalayam, Tiruchengode-637 205**
- IV. *Date of Birth* : **17 – 07 – 1954**    *Age* : **66 Years**

### V. *Educational Qualifications:*

Degree	Board/University	Specialization	Year of Passing	Percentage of Marks/Class
<b>Dr. Ing. (Ph.D in Engg.)</b>	University of Rennes I, France	Computer Science	1986	Highly Honourable
<b>M.Sc. Engg.</b>	University of Madras	Applied Electronics	1977	72.3 First Class
<b>B.E.</b>	University of Madras	Electronics & Commn. Engg.	1975	70 First Class

### VI. *Awards:*

- 1. Outstanding Engineer Award from The Institution of Engineers (India), Coimbatore Regional Centre for the year 2016**
- 2. Achievement Award from IETE, Erode Centre in recognition of the contribution for the development of Technical Education, November 2015**
- 3. Best Academic Administrator Award from Venus International Foundation, Chennai on July 2015**
- 4. International Achievers Award towards Excellence in Education from Global Achievers Foundation, New Delhi. The award was given by Mr.Korn Dabbaransi, Former Deputy Prime Minister of Thailand during International Achievers Summit held on 8<sup>th</sup> February 2015 at Bangkok**

5. **Life Time Achievement Award by Nehru Group of Institutions, Coimbatore for the year 2014**
6. **Bharathiya Vidya Bhavan National Award for the Best Engineering College Principal for the year 2013 by ISTE, New Delhi**
7. **Computer Society of India, Chapter Patron award for the year 2004**
8. **Best thesis award from CNRS (National Council for Scientific Research), France for the year 1986**
9. **Indo French Research Fellowship for the year 1983**
10. **School topper in SSLC public examinations in 1969**

*VII. Membership and Positions held in Professional Societies:*

1. **Fellow in Institution of Engineers (India)**
2. **Fellow in Institution of Electronics and Telecommunication Engineers**
3. **Life member of Computer Society of India**
4. **Life member of Indian Society for Technical Education**
5. **Elected Chairman, Education and Research Division of Computer Society of India at National level from 2001 to 2003**
6. **Secretary, Vice Chairman and Chairman (3 terms) of Computer Society of India Pondicherry Chapter from 1989 to 1994**
7. **Member, Association for Computing Machinery**

*VIII. Experience (Academic):*

- |   |   |
|---|---|
| <p>(1) <b>Professor of Computer Science &amp; Engineering</b><br/>June. 2020 to till date</p> | <p>Department of Computer Science &amp; Engineering<br/>Vivekanandha College of Engineering for Women</p>                             |
| <p>(2) <b>Professor of Computer Science &amp; Engineering</b><br/>Aug. 2008 – July 2019</p>   | <p>Department of Computer Science &amp; Engineering<br/>Kongu Engineering College, Perundurai<br/>- Research and Project guidance</p> |
| <p>(3) <b>Professor of Computer Science &amp; Engineering</b><br/>Jan. 1993 – Aug. 2008</p>   | <p>Department of Computer Science &amp; Engineering<br/>Pondicherry University, Puducherry<br/>- Teaching and Research</p>            |

- Laboratory establishment
  - Academic Co-ordination
  - Training and Consultancy
- (4) **Professor of Computer Science & Engineering**  
June 1988 - Jan. 1993
- Department of Computer Science & Engineering  
Pondicherry Engineering College, Puducherry
- Teaching and Research
  - Laboratory establishment
  - Academic Co-ordination
  - Training and Consultancy
- (5) **Visiting Faculty – Asst. Professor in Computer Science & Engg.**  
Feb. 1988 - June 1988
- Department of Computer Science & Engg.  
Pondicherry Engineering College, Puducherry
- Teaching & Training
  - Laboratory establishment
- (6) **Honoured Research Fellow**  
Oct. 1987 - Dec. 1987
- Lab. TIM3 - INPG (CNRS)  
Grenoble, France
- Post Doctoral Research on Hypercube Supercomputers
- (7) **Visiting Faculty – Asst. Professor in Computer Science**  
Oct 1985- Sept. 1987
- IRISA, University de Rennes I  
Rennes, France
- Teaching graduate courses
  - Supervision of graduate students' thesis works
  - Participated in the research activities of Integrated Parallel Architectures (API) team
- (8) **Research Scholar**  
Oct. 1983 - Sep.1985
- IRISA, University de Rennes I  
Rennes, France
- Collaborated in a research project: Computer aided design tools for VLSI architectures
- (9) **Lecturer in Computer Science**
- Computer Science Division, Dept. of ECE  
College of Engg., Anna University, Madras

Nov. 1980 - Sept. 1983

- Teaching graduate and under graduate courses
- Supervision of graduate students' thesis works
- Organization of continuing education programs
- Establishment & Maintenance of Computer Lab

**(10) Associate Lecturer**

**in Electronics & Commn. Engg.**

Nov. 1977 - Oct. 1980

Dept. of Electronics & Commn. Engg.,

College of Engg., Anna University, Madras

- Teaching graduate and under graduate courses
- Supervision of students' project works

**(11) Trainee**

Jan. 1977 - July 1977

Indian Space Research Organization, Bangalore

- Designed and implemented a display system interface for Bhaskara II satellite

**IX. Research:**

Areas of Interest: Software Engineering, Software Architecture, Project Management, Agent Technology, Pervasive Computing, Multilingual Computing

Guidance :	Publications	- > 120
	Masters Thesis	- > 100
	Ph.D.: Awarded	- 11
	Pursuing	- 2

**X. Experience (Administration):**

**(1) Principal**

August 2008 to July 2019

Kongu Engineering College, Perundurai

**(2) Vice Chancellor (in charge)**

8<sup>th</sup> Jan 2007 – 16<sup>th</sup> April 2007

Pondicherry University, Puducherry

**(3) Director of Studies,**

**(Pro Vice Chancellor)**

**Educational Innovations and Rural Reconstruction**

September 2006 – August 2008

Pondicherry University, Puducherry

- Responsible for organising academic programmes, developing innovative study programmes and teaching learning processes in the University

- Responsible for planning the overall development of the University
- Assist the Vice Chancellor on the Academic administration
- Students placements

**a. Dean**

March 2004 – Nov. 2006

Ramanujan School of Mathematics and  
Computer Science

Pondicherry University, Puducherry

- Academic Co-ordination
- Students Placement
- Planning and Development
- Purchase of equipments & books
- Administration

**(4) Head of Dept.**

July 2006 – Dec. 2006

July 2002 – July 2004

Jan. 1993 – June 2001

Department of Computer Science & Engg.

Pondicherry University, Puducherry

- Establishment & Development of the Dept.
- Purchase of equipments & books
- Students placement
- Consultancy
- Administration

**(5) Head of Dept.**

June 1988 - Jan. 1993

Department of Computer Science & Engg.

Pondicherry Engineering College, Puducherry

- Establishment & Development of the Dept.
- Purchase of equipments & books
- Students placement
- Consultancy
- Administration

**(6) Warden**

1989 – 1990

Hostels (Boys & Girls)

Pondicherry Engineering College, Puducherry

- Purchase and Stores maintenance
- Maintenance of hostel buildings

- Maintenance of messes
- Mess billing and collection
- Allotment of rooms
- Enforcement of discipline

**(7) Deputy Warden**

1981-1982

Boys Hostel

Anna University, Chennai

- Maintenance of hostel building
- Allotment of rooms
- Enforcement of discipline

**XI. Memberships in the Committees of the Institution worked:**

**(a) In Pondicherry University:**

1. Court
2. Executive Council
3. Academic Council
4. Planning Board (Member Secretary)
5. Finance Committee
6. Departmental Promotion Committees
7. Faculty Grievance Committee
8. Advisory Committee to Vice Chancellor - Chairman
9. Selection Committees
10. Placement Committee - Chairman
11. Investment Committee
12. University Automation Committee
13. Transport Advisory Committee - Chairman
14. Affiliation and Inspection Committees
15. Examination Committee
16. Sports Board
17. Advisory Committee – Community College
18. Advisory Committee – Directorate of Distance Education
19. CBCS Programme Committee
20. Central Purchase Committee
21. Enquiry Committees

22. X plan proposal preparation committee
23. Coordinator for the NAAC assessment & accreditation -1998

**(b) In Pondicherry Engineering College:**

1. Governing Council
2. General Body
3. Purchase Committee
4. Staff Selection Committee
5. Enquiry Committees

*XII. Expert Memberships:*

**(a) International Organizations:**

1. Expert member of **UNESCO BANGKOK** for the employability of graduates, 11<sup>th</sup> & 12<sup>th</sup> February 2009 in Penang, Malaysia.
2. External Assessor of **Glasgow Caledonian University, Glasgow, UK**, for the Caledonian College of Engineering, Muscat, Oman, 2005-2009
3. **UNIDO** expert for setting up Information Technology Centre at Neyveli Lignite Corporation, Neyveli, 1996 – 1998

**(b) National Organizations:**

1. Coordinator for the Indira Gandhi National Open University study centre – Kongu Engineering College – 2548 since February 2011.
2. Expert member of **National Assessment and Accreditation Council (NAAC)** of UGC for Assessment and Accreditation of Universities and Colleges
3. Expert member of **National Board of Accreditation (NBA)** of AICTE for Accreditation of Engineering Colleges
4. Member of the **National Council of IT Education** of AICTE, New Delhi
5. Member of the **All India Board of Computer Science & Engg./Tech. and Applications** of AICTE, New Delhi
6. Expert Member of AICTE Inspection Committee
7. Expert member of AICTE for approval of new institutions & existing institutions
8. Expert member of AICTE for research project funding & monitoring
9. Elected Member of Executive Committee, **Computer Society of India**, HQ

10. Member of Management Committee, Pondicherry Chapter of Computer Society of India

**(c) Government:**

1. Member in the District Enterprises Development Consultative Committee.
2. Expert member of **MHRD**, Govt. of India for project funding to IISc, IIT's and REC's
3. Expert member of advisory committee of CLASS project, **MHRD**, Govt. of India
4. Member of **International Committee and Working Group** to finalise the Coding Standards for Tamil, Govt. of Tamil Nadu
5. Member of Tamil Computer Research Committee, Govt. of Tamil Nadu
6. Member of the Standing Committee for E-Governance, Govt. of Puducherry
7. Member, IT policy preparation committee, Govt. of Puducherry
8. Member IT task force, Govt. of Puducherry
9. Member of the Committee of Direction, Govt. of Puducherry
10. Member of the committee for the establishment of CASIT Society and planning for IIIT – Pondicherry, Govt. of Puducherry
11. IT Consultant to JIPMER, Puducherry, Govt. of India
12. IT Consultant to Vector Control Research Centre, Puducherry, Govt. of India
13. Consultant to various Govt. Departments and Autonomous Bodies in Puducherry State.

**(d) Faculty Selection Committees:**

1. Governor's Nominee for Faculty Selection Committee of Mysore University, Mysore
2. Governor's Nominee for Faculty Selection Committee of Karnataka University, Dharwad
3. Member of Faculty Selection Committee of Tezpur University, Jawaharlal Nehru Technological University, Anna University, Madras University, Mysore University, Bharathiar University, Bharathidasan University, Madurai Kamaraj University, Manonmanium Sundaranar University, Alagappa University, Periyar University, Annamalai University, Lucknow University, Kannur University, S.V. University, Anna University of Technology, Coimbatore etc.
4. AICTE nominated faculty selection committee member for many Engineering Colleges in Tamil Nadu and Puducherry.

**(e) Academic Committees:**

1. Syndicate Member, Anna University, Chennai from December 2012 to November 2015.
2. Member of the Executive Council, Court, Academic Council, Pondicherry University, Puducherry.

3. Chairman, Core Committee to suggest reforms on examination system since December 2014.
4. External Subject Expert for the Screening Committee to scrutinize the PhD admission process in Medical Informatics, 2014-15
5. Member in the Internal Monitory Committee, Anna University, Chennai since July 2014.
6. Member in the Standing Council, Anna University, Chennai since July 2014.
7. Executive Committee Member of the Anna University Sports Board (AUSB) since September 2013.
8. Project Review Committee Member for DST projects
9. Member Academic Council, MIT, Anna University, Chennai
10. Member Academic Council, Bharathidasan Govt. College for Women (Autonomous), Puducherry.
11. Chairman, Board of Studies in Computer Science (UG & PG), Pondicherry University (1991-2001, 2002-2004 & 2006)
12. Chairman, Board of Studies in Computer Science (PG), Madurai Kamaraj University for 2 terms
13. Member Board of Studies of many Universities and Institutions
14. Question Paper Setter & Evaluator for SLET examinations, Tamil Nadu

### ***XIII. Research Publications***

#### ***Edited Books:***

1. K Palanivel, S Kuppuswami, "Green and energy-efficient computing architecture for e-learning", Managing Big Data in Cloud Computing Environments, pp. 252-277, 2016.
2. K Palanivel, S Kuppuswami, "Service-Oriented Reference Architecture for Digital Library Systems", Cloud Computing and Virtualization Technologies in Libraries, pp.255- 277, 2014.
3. K Palanivel, S Kuppuswami, "A Cloud-Oriented Reference Architecture to Digital Library Systems", Cloud Computing and Virtualization Technologies in Libraries, pp.230-254, 2014.
4. S. Kuppuswami, Paul Rodrigues et. al., (Eds.), Roclub, IT for the New Generation, Tata McGraw-Hill Publishing Company Ltd. 1999.
5. S. Kuppuswami, Paul Rodrigues et. al., Object versioning in collaborative design, P.Radhakrishnan et. al.(Ed.), CAD/CAM, Robotics and Factories of the Future, Narosa Publishing House, 1999.

6. S. Kuppuswami, Paul Rodrigues et. al., Application of design patterns on NetSneaker, J.R. Isaac and Harita Gupta (Eds.), IT for the New Generation, Tata McGraw-Hill Publishing Company Ltd. 1998.
7. S. Kuppuswami, Paul Rodrigues et. al., Integrated indexing model for OODB, J.R. Isaac and Harita Gupta (Eds.), IT for the New Generation, Tata McGraw-Hill Publishing Company Ltd. 1998.
8. S. Kuppuswami, Subramanian R et. al., A new indexing model for dynamic databases, , D. Janaki Ram (Ed.), Management of data, Narosa Publishing House, 1998.
9. S. Kuppuswami, Tourancheau B, Evaluating the Performances of Transputer Based Hypercube Vector Computer, La Lettre du Transputer 4, 1990.
10. S. Kuppuswami and Andre F, MISS : A test - bed for systolic architectures, W. Moore et al. (Eds.), Systolic Arrays, Adam Hilger Ltd., Oxford, July 1986.
11. S. Kuppuswami and Andre F, MISS : A distributed simulator for systolic architectures, M. Cosnard et. al. (Eds.), Parallel Algorithms and Architectures, North-Holland, April 1986.

#### **Journals :**

1. Prof.S. Kuppuswami , P.S. Nandhini, S. Malliga," Classification of Intrusions in RPL-Based IoT Network"s: A Comparison,2022
2. Prof.S. Kuppuswami , P.S. Nandhini, S. Malliga," Energy Efficient thwart ranking attack in RPL-Based IoT Networks: A Comparison",2021
3. S.Usha, S. Kuppuswami, M.Karthik, "A New Enhanced authentication mechanism using session key agreement protocol", Cybernetics and Information Technologies, vol. 18, issue 4, pp.61-74, 2018
4. G.Divyaprathi, S.Kuppuswami, "A Performance Evaluation of Attribute Extraction Technique for the Analysis of sentiment", International Journal of Engineering and Computer Science, Vol.7, issue 2, pp. 23653 – 23655, 2018.
5. M. Joseph Auxilius Jude and Kuppuswami S, "Enhanced Window Increment and Adaptive Recovery TCP for Multi-hop Wireless Networks', IET Electronics Letters, vol. 53, no. 6, pp. 438 – 440, 23 March 2017 (DOI: [10.1049/el.2016.2601](https://doi.org/10.1049/el.2016.2601))
6. S. Usha, S. Kuppuswami, "An Enhanced Biometric Templates Protection Mechanism using Blind Digital Watermarking", Asian Journal of Research in Social Sciences and Humanities, vol. 6, issue 7, pp.93-108.

7. R Devi Priya, S Kuppuswami, R Sivaraj, "BAGEL: A non-ignorable missing value estimation method for mixed attribute datasets", *Sādhanā*, Vol.41, issue 8, pp.825-836, 2016.
8. R Manjula Devi, S Kuppuswami, "CAST: A constant Adaptive Skipping Training Algorithm for Improving the Learning Rate of Multilayer Feedforward Neural Networks", *Research Journal of Applied Sciences, Engineering and Technology*, Vol.12, issue 8, pp.790-812, 2016.
9. R Devi Priya, S Kuppuswami, R Sivaraj, "Bayesian based inference of missing time series values using Genetic Algorithm", *International Journal of Hybrid Intelligent Systems*, vol.12, issue 2, pp.77-87, 2015.
10. S. Usha, S. Kuppuswami, "Performance Analysis of Fingerprint Denoising using Stationary Wavelet Transform", *International Journal of Image, Graphics and Signal Processing*, vol.7, issue 11, pp.48-54, 2015.
11. Usha Subramaniam, Kuppuswami Subbaraya, "A Biometric Based Secure Session Key Agreement using Modified Elliptic Curve Cryptography", *International Arab Journal of Information Technology (IAJIT)*, vol.12, issue 2, 2015.
12. R Devi Priya, S Kuppuswami, "A novel approach for imputation of missing continuous attribute values in databases using genetic algorithm", *International Journal of Information Technology and Management*, vol.14, issue 2-3, pp.185-200, 2015.
13. K Palanivel, S Kuppuswami, "Architecture solutions to e-Learning systems using service-oriented cloud computing reference architecture", *International Journal of Application or Innovation in Engineering & Management (IJAIEEM)*, vol. 3, issue 3, pp. 547-559, 2014.
14. K Palanivel, S Kuppuswami, "Towards service-oriented reference model and architecture to e-learning systems", *Int. J. Emerg. Trends Technol. Comput. Sci.(IJETTCS)*, vol.3, issue, 4, pp.146-155, 2014
15. S. Usha, S.Kuppuswami, "Secured Session Key Agreement Protocol for Iris Cryptosystem using Customized Elliptic Curve Cryptography," *International Journal of Security and its Applications*, vol.8, No.1, pp.147-158, 2014.
16. K Palanivel, S Kuppuswami, "A Cloud-Oriented Green Computing Architecture for E-Learning Applications", *International Journal on Recent and Innovation Trends in Computing and Communication*, Vol.2, issue 11, pp. 3775-3783, 2014.
17. R Devi Priya, S Kuppuswami, "Drawing inferences from clinical studies with missing values using genetic algorithm", *International journal of bioinformatics research and applications*, Vol10, issue 6, pp. 613-627, 2014.

18. R Manjula Devi, S Kuppuswami, RC Suganthe, "East: An exponential adaptive skipping training algorithm for multilayer feedforward neural networks", WSEAS Transactions on Computers, vol.13, issue 4, pp. 138-151, 2014.
19. R. Manjula Devi, S. Kuppuswami, and R. C. Suganthe, "Fast Linear Adaptive Skipping Training Algorithm for Training Artificial Neural Network," Mathematical Problems in Engineering, vol. 2013, Article ID 346949, 9 pages, 2013. doi:10.1155/2013/346949
20. R.Devi Priya, S.Kuppuswami, "A Genetic Algorithm Based Approach for Imputing Missing Discrete Attribute values in Databases," WSEAS Transactions on Information Science and Applications, Vol. 9 (6), pp.169-178, 2012.
21. S Kuppuswami and T Chithralekha, "A new Behavior management architecture for language faculty of an agent for task delegation", Insights into Advancements in Intelligent Information Technologies: Discoveries, pp. 118-139, 2012.
22. K Palanivel and S Kuppuswami, "Reference architecture for personalized E-learning systems using proxy and caching (RAPESPAC)", International Journal of Computer Applications, vol. 38, issue 10, pp. 17-26, 2012.
23. S Siva Sathya and S Kuppuswami, "Gene silencing—a genetic operator for constrained optimization", Applied Soft Computing, vol.11, issue 8, pp. 5801-5808, 2011.
24. S Siva Sathya, S Kuppuswami and S Sendhil Kumar, "Gene silencing genetic algorithm for 0/1 Knapsack with object preferences", vol.4, issue 5, pp. 886-893, 2011.
25. K Palanivel and S Kuppuswami, "Service-oriented reference architecture for personalized e-learning systems (SORAPES)", International Journal of Computer Applications, vol. 24, issue 5, pp. 35-44, 2011.
26. R.Manjula Devi, S.Kuppuswami, "Speed Learning by Adaptive Skipping: Improving the Learning Rate of Artificial Neural Network through Adaptive Stochastic Sample Presentation," International Journal of Artificial Intelligence Techniques - Novel Approaches & Practical Applications, pp.36-39, 2011.
27. R.Devi Priya, S.Kuppuswami, S.Makesh kumar, "A Genetic Algorithm Approach for Non-Ignorable Missing Data, International Journal of Computer Applications, Volume 20, Number 4, 2011.
28. V. Amouda, Buvaneshwari, S. Kuppuswami, "SOGA-MSA: Self-organizing Genetic Algorithm for Multiple Sequence Alignment, Global J. of Computer Science and Technology, volume 11, issue 7, ISSN 0974- 4983, 2011.
29. S Siva Sathya and S Kuppuswami, "Analysing the migration effects in nomadic genetic algorithm", International Journal of Adaptive and Innovative Systems, vol.1, issue 2, pp.158-170, 2010.

30. V. Amouda, V. Selvaraj, S. Kuppuswami, "Genetic algorithm for multiple alignments to find the pattern (GMAP). International Journal of Computer Engineering and Computer Applications ISSN 0974- 4983, 2010.
31. V. Amouda, V. Selvaraj, S. Kuppuswami, Buvaneshwari, IMAGA: Intron Multiple Alignment using genetic Algorithm, International Journal of Computer Engineering and Computer Applications, ISSN: 2229-5631, 2010.
32. K Palanivel and S Kuppuswami, "A Service Versioning Model For Personalized E-Learning System", International Journal of Engineering Science and Technology, vol.2, issue 10, pp.5583-5593, 2010.
33. K Palanivel, V Amouda and S Kuppuswami, "Publisher-subscriber: An agent system for notification of versions in OODBs", 2009 International Conference on Intelligent Agent & Multi-Agent Systems, pp.1-6, 2009.
34. K. Palanivel, V. Amouda and S. Kuppuswami, "Services and Semantic Web, Inter", Journal of Computer Engineering and Information Technology, Winter Edition, vol. 21, issue 5, pp.27-37, 2009.
35. Siva Sathya S., Kuppuswami S. "Genetic Algorithm with Gene Silencing Operator for Course Time-Tabling", Journal of Information, Intelligence and Knowledge (JIJK), Vol.1, Issue 4, Jan, pp.345-358, 2009.
36. Siva Sathya S., Kuppuswami S., Syam Babu,K. "Nomadic Genetic Algorithm for Multiple Sequence Alignment", International Journal of Adaptive and Innovative Systems (IAIS), Vol.1, No.1, pp 44-59, 2009.
37. Siva Sathya S., Kuppuswami S., Rajeev Kumar Singh, "Analyzing the population sizing phenomenon in Genetic Algorithm for 0/1 Knapsack with object preferences," *International Journal of Information processing (IJIP), Vol-3, No.1, 2009, ISSN:0973-8215/ pp. 5-17, 2009.*
38. Siva Sathya, S. Kuppuswami S., "Analysing the Impact of Population size and Group size on Nomadic Genetic Algorithm," International Journal of Recent Trends in Engineering, Vol.1, No.1, May 2009, pp.523-525, 2009.
39. S Siva Sathya, S Kuppuswami and K Syam Babu, "Nomadic genetic algorithm for multiple sequence alignment (MSANGA)", International Journal of Adaptive and Innovative Systems, vol.1, issue 1, pp. 44-59, 2008.
40. T.Chitrlekha and S.Kuppuswami, "A Generic Internal State Paradigm for the Language Faculty of Agents for Task Delegation", International Journal of Intelligent Information Technologies, Vol.4(3), 2008.

41. T.Chitrlekha and S.Kuppuswami, "Belief, Task Behavior Model for the Language Faculty of Agents for Task Delegation", International Journal of Intelligent Information Technologies, July-September 2008.
42. V.Prasanna Venkatesan, S.Kuppuswami, "ARMMS – Architectural Reference Model for Multilingual Software", Journal of Convergence Information Technology, Vol. 3 (2), June 2008.
43. V.Prasanna Venkatesan, S.Kuppuswami, "An Aspect-based Language Library Model using Design Space Approach", International Journal of Computer Science and System Analysis, Vol. 2 Number 1, June 2008.
44. T.Chitrlekha, S.Kuppuswami, "On Providing Dynamic Multilingual Natural Language Interaction in Agents", International Journal of Intelligent Information Processing, Vol.1 No. 1-2, January-December 2007.
45. Siva Sathya S., Kuppuswami S., M.Sasidhar, "Sequence Compression and Genetic Algorithm for Phylogenetic Tree Reconstruction", International Journal of Computer Science and Knowledge Engineering, Vol.1 no.1-2, Jan.-Dec.2007.
46. V.Prasanna Venkatesan, S.Kuppuswami, "Formal Models of Multilingual Software", International Journal of Computer Science and System Analysis, Vol. 1 Number 2, July-December 2007.
47. K.Vivekanandan, S.Kuppuswami, "Students attitude towards Pair Programming in Short Duration Laboratory Exercises", International Journal of Computer Science and System Analysis, Vol. 1 Number 2, July-December 2007.
48. Subbaraya Kuppuswami, Kalimuthu Vivekanandan, "The Effects of Pair Programming on Learning Efficiency in Short Programming Assignments.", Informatics in Education, vol.3, issue 2, pp. 251-266, 2004.
49. Kuppuswami S, Chitrlekha T and Prasanna Venkatesan V, "Multilingual Technology and Tools for IT Developments in India", Invited paper in Technorama, a Supplement of Institution of Engineers India News, October 2003.
50. S Kuppuswami, Kalimuthu Vivekanandan, Prakash Ramaswamy, Paul Rodrigues, " The Effects of Individual XP Practices on Software Development Effort, ACM SIGSOFT Software Engineering Notes, Vol. 28, Issue 6, September 2003.
51. S Kuppuswami, K Vivekanandan, Paul Rodrigues, "A Framework for Software Project Managers to Quantify the Cost Effectiveness of Extreme Programming Practices", An International Journal of Society for Human Transformation and Research, Vol. 4, No.1 Jan-June 2003.
52. G Zayaraz, P Thambidurai, S Kuppuswami, Paul Rodrigues, "New Approach to Software Architecture", ACM Sigsoft Software Engineering Notes, Vol 28, Issue 2, pp.17, March 2003.

53. S. Kuppuswami, Chitralkha T et. al, P. Thangavel(Ed.), "Multilingual Knowledge Representation – A Proposal", Algorithms and Artificial Systems, January 2003.
54. S Kuppuswami, SA Rabara, P Rodrigues, SVK Raja, "C++ extensions to parallelism : A survey", Computer Science and Informatics, Journal of CSI, Vol. 29, No. 4, pp.8-22, 1999.
55. Chithralekha, T., Kuppuswami, S., & Venkatesan, V. P. "Survey of Agents With Language Competence".

**Conferences:**

1. D.Saranya, S. Kuppuswami, "Evaluating UDP Traffic and Machine Learning based Intrusion Deduction in SDN", International Conference on Cyber Physical Systems for next generation computing (CPSNGC-18), pp.90-94, 2018.
2. S. Siva Sathya, S Kuppuswami, R Ragupathi, "Replication strategies for data grids", International Conference on Advanced Computing and Communications, pp.123-128, 2006.
3. M. Joseph Auxilius Jude and S. Kuppuswami," Multi Sample Retransmission Timeout (RTO) Approximation for Multi-hop Wireless Networks", IEEE International Conference on Electronics, Communication and Aerospace Technology (ICECA 2017), vol. 1, pp. 445-448, Apr. 20-22, 2017, Coimbatore, INDIA.
4. M. Joseph Auxilius Jude and S. Kuppuswami," PAR: A Proactive Queue Mechanism for Multi-Hop Wireless Networks", IEEE International Conference on Electronics, Communication and Aerospace Technology (ICECA 2017), vol. 2, pp. 748-752, Apr. 20-22, 2017, Coimbatore, INDIA.
5. R.Ramyea, S. Kuppuswami, M. Joseph Auxilius Jude, V.C. Dinesh, "Performance Analysis of Standard Routing Algorithms in LEO Satellite Network", International Conference on Innovations in information, Embedded and Communication Systems (ICIIECS), 2016.
6. M. Monikha, S. Kuppuswami, "Energy Aware On demand Tree based Routing Protocol for Mobile Ad hoc Networks ",IEEE Sponsored 2nd International Conference on Innovations in Information Embedded and Communication Systems ICIIECS'15, pp.1-5, 2015.
7. K. Tamilselvi, S. Kuppuswami, "Enhancing Security in Optimized Link State Routing Protocol for MANET using Threshold Cryptography Technique", International Conference on Recent Trends in Information Technology, 978-1-4799-4989-2, 2014.

8. K.S. Kalaivani, S. Kuppuswami, "A Novel Acceleration Technique to Improve the Speed of Mining Frequent U2 Patterns", Amrita International Conference of Women in Computing (AICWIC'13), pp.5-9, 2013.
9. S. Kuppuswami, S.Siva Sathya, et.al, "Genetic Algorithm with Population sizing & Reward function for 0/1 knapsack with object preferences", Proceedings of the International conference on Information Processing, Bangalore, India, Aug 8-10, 2008, (Selected as Best Paper of the Conference and will be published in the IJIP journal )
10. S Kusspuswami, K Palanivel and V Amouda, "Applying aspect-oriented approach for instance adaptation for object-oriented databases", 15th International Conference on Advanced Computing and Communications (ADCOM 2007), pp.35-40, 2007.
11. S. Kuppuswami, S.Siva Sathya, and K.Syam Babu, "Fault Tolerance by Check-Pointing Mechanisms in Grid Computing, Proceedings of the International Conference on Global Software Development, Coimbatore, 26-28 July 2007.
12. S. Kuppuswami, S.Siva Sathya, and K.Rajashekar, "Nomadic Genetic Algorithm for Course Time-tabling", Proceedings of the International Conference on Information Science, Technology and Management (CISTM 07), Hyderabad, India,16-18 July 2007.
13. S. Kuppuswami, "Service Oriented Architecture", Third Indo-Australian Conference on Information Technology Security (IACITS-2007), Queensland University of Technology, Brisbane, Australia, 9-10 July 2007.
14. S Kusspuswami, K Palanivel and V Amouda, "Applying aspect-oriented approach for instance adaptation for object-oriented databases", 15th International Conference on Advanced Computing and Communications (ADCOM 2007), pp.35-40, 2007.
15. S Kuppuswami, K Palanivel and V Amouda, "Applying Aspect-Oriented Approach for Instance Adaptation for Object-Oriented Databases", 15th International Conference on Advanced Computing and Communications (ADCOM 2007), 2007.
16. S. Kuppuswami, S.Siva Sathya, and R. Raghupathi, " Replication Strategies for Data Grids, Proceedings of the International Conference on Advance Computing (ADCOM 06), NIIT, Surathkal, India, December 2006.
17. S. Kuppuswami, Palanival K. et. al., "An Aspect-Oriented Approach to Secure Database Applications", Proceedings of the International Conference on Information Security, Pondicherry Engineering College, Puducherry, 7-8 December, 2005
18. S. Kuppuswami, Palanivel K. et. Al., "Mining and Applying Design Patterns to Agent-Based Systems" Proceedings of the 1<sup>st</sup> International Conference on Artificial Intelligence (IICAI'03), Hyderabad, India, December 2003.

19. S. Kuppuswami, Vivekanandan K. et. al., "A Process Simulation Model to Find the Effects of Extreme Programming on Software Development", Cost Asia Software Process Engineering Conference 2003 (ASEPG 2003), Hyderabad, India, August, 2003.
20. S. Kuppuswami, K. Palanivel et. al., "Design patterns for networked multimedia applications", Proceedings of the ROVISP'03, International conference on Robotics, Vision and Signal Processing, Universiti Sains Malaysia, Malaysia, January, 2003
21. S Kuppuswami, Kalimuthu Vivekanandan, Paul Rodrigues, "A System Dynamics Simulation Model to Find the Effects of XP on Cost of Change Curve", International Conference on Extreme Programming and Agile Processes in Software Engineering, Springer Verlag, Volume 2675, 2003.
22. S Kuppuswami and T.Chithralekha, "Software Agents – An Overview", (Invited Paper), Proceedings of the National Conference on Software Agents and Embedded Systems, Sri Ramakrishna Engineering College, Coimbatore, 11-12 July 2003.
23. S Kuppuswami and Vivekanandan K, "Cost Estimation Model for eXtreme Programming Projects", International Forum on COCOMO and Software Cost Modeling, Los Angeles, U.S.A, October, 2002.
24. S. Kuppuswami, V. Prasanna Venkatesan et. al., "PONN : A Tamil Operating Environment", Proceedings of the Tamil Internet 2002, International conference on Tamil Internet, California, USA, September 2002 ( Abstract).
25. S Kuppuswami and Vivekanandan K, "Female students perspective on the adoption of pair programming to conduct laboratory courses", Proceedings of the first annual conference on Women in IT-WIT 2002, Annamalai Nagar, 29-30 August 2002.
26. S. Kuppuswami and V. Prasanna Venkatesan, "IT for Rural Prosperity : Language Issues and Solutions", Proceedings of the National Seminar on Global Prosperity Through Information Technology, Computer Society of India, Sriji College, Maddiralapadu, Andhra Pradesh, 24-25 Feb. 2002.
27. S. Kuppuswami, S. Albert Rabarra et. al., "Concurrency in IB-Tree for OODBMS", Proceedings of the CSI 2001 – XXXVI Annual Convention, Calcutta, 20-24 October, 2001.
28. S. Kuppuswami, T.Chithralekha et. al., "Dynamic Multilingual Web Page Construction – A Proposal", Proceedings of the CSI 2001-XXXVI Annual Convention, Calcutta, 20-24 Oct., 2001.
29. S. Kuppuswami and Felix Anderson Christdhas, "A Unified Indexing Technique for OODB", Proceedings of the CSI 2001 - XXXVI Annual Convention, Calcutta, 20-24 October, 2001.

30. S. Kuppuswami, V. Prasanna Venkatesan et. al., "Role based agents for internet access through SPECS", CSI 2000 - XXXV Annual Convention, Chennai, Sept. 2000
31. S. Kuppuswami, S. Albert Rabarra et. al., "A new method for concurrency in B-tree and IB-tree", CSI 2000 - XXXV Annual Convention, Chennai, Sept. 2000
32. S. Kuppuswami, R. Geetharamani et. al., "Design patterns in multimedia databases", Proceedings of the 7<sup>th</sup> Int. conference on Multimedia processing and systems, Chennai, India, Aug. 2000.
33. S. Kuppuswami, K. Palanivel, et. al., "Applications of design patterns in multimedia applications", Proceedings of the 7<sup>th</sup> International conference on Multimedia processing and systems, Chennai, India, Aug. 2000.
34. S. Kuppuswami, Paul Rodrigues, et. al., "Concurrency of operations on IB-Trees", Proceedings of the 7<sup>th</sup> Int. conference on Multimedia processing and systems, Chennai, India, Aug. 2000.
35. S. Kuppuswami and K. Vivekanandan, "Multiple Abstraction Model in a Distributed Environment", Proceedings of the first National Conference on Recent Trends in Advanced Computing, Tirunelveli, Feb. 2000.
36. S. Kuppuswami, Paul Rodrigues, et. al., "Patterns in databases", Proceedings of the 7<sup>th</sup> International conference on Advanced computing (ADCOMP'99), Roorkee, India, December 1999.
37. S. Kuppuswami, Paul Rodrigues, et. al., "Advertising pattern for agents", Proceedings of the 5<sup>th</sup> International conference on cognitive systems (ICCS99), New Delhi, December 1999.
38. S. Kuppuswami, V. Prasanna Venkatesan et. al., "SPECS : friendly computer system for the visually handicapped - a proposal", Proceedings of the national conference on creating convenient and friendly environment for education and training of the handicapped in technical institutions, Roorkee, December 1999.
39. S. Kuppuswami, Paul Rodrigues, et. al., "Applications of design patterns in database security", Proceedings of the third national conference on OO technology (NCOOT 99), Chennai, October 1999.
40. S. Kuppuswami, Paul Rodrigues, et. al., "Mining and applying a family of design patterns for layered architecture", Proceedings of the third national conference on OO technology (NCOOT 99), Chennai, October 1999.
41. S. Kuppuswami, S. Albert Rabarra et. al., "Concurrency in the class hierarchy indexing technique - An OO approach", Proceedings of the ROVPIA'99, International conference

- on Robotics, Vision and Parallel Processing for Automation, Universiti Sains Malaysia, Malaysia, July 1999.
42. S. Kuppuswami, Paul Rodrigues, et. al., "Patterns in communication software Proceedings of the ROVPIA'99", International conference on Robotics, Vision and Parallel Processing for Automation, Universiti Sains Malaysia, Malaysia, July 1999.
  43. S. Kuppuswami, Paul Rodrigues, et. al., "Object versioning using agent technology", Proceedings of the Computing'99, Northern Regional Conference of Computer Society of India, Indore, March 1999.
  44. S. Kuppuswami, Paul Rodrigues, et. al., "A new integrated indexing model for OO data bases", Proceedings of the Computing'99, Northern Regional Conference of Computer Society of India, Indore, March 1999.
  45. S. Kuppuswami, S. Albert Rabarra et. al., "An approach to improve concurrency in class hierarchy tree", Proceedings of the Computing'99, Northern Regional Conference of Computer Society of India, Indore, March 1999.
  46. S. Kuppuswami, S. Albert Rabarra et. al., "Role based interface model", Proceedings of the first National conference on Object Technology (OBJECT98), Pune, February 1998.
  47. S. Kuppuswami, R. Subramanian et al, "Clustering techniques - A comparative study", Proceedings of the first National conference on Object Technology (OBJECT98), Pune, February 1998.
  48. S. Kuppuswami, Paul Rodrigues, et. al., "Versioning in distributed collaborative design environment", Proceedings of the National conference on advanced databases and applications (NCADA'98), Anna University, Chennai, October 1998.
  49. S. Kuppuswami, R. Subramanian et al, "Design patterns on NetSneaker", Proceedings of the 2<sup>nd</sup> National conference on object oriented technology (NCOOT'98), Pondicherry University, Puducherry, October 1998.
  50. S. Kuppuswami and K.Vivekanandan, "New object model for personnel information system in a distributed environment", Proceedings of the 2<sup>nd</sup> National conference on object oriented technology (NCOOT'98), Pondicherry University, Puducherry, October 1998.
  51. S. Kuppuswami, Paul Rodrigues, et. al., "IB- Tree an indexing scheme for object oriented databases", Proceedings of the 6<sup>th</sup> International conference on Advanced computing (ADCOMP'98), Pune, India, December 1998.
  52. S. Kuppuswami, Paul Rodrigues, et. al., "Application and mining of design patterns on NetSneaker", Proceedings of the IEEE International conference on Networking India and the world (CNIW-98), Ahmedabad, India, December 1998.

53. S. Kuppuswami, S. Albert Rabarra et. al., "MAMOOS - Multiple abstraction model for object oriented systems", Proceedings of the IEEE International conference on Networking India and the world (CNIW-98), Ahmedabad, India, December 1998.
54. S. Kuppuswami and V. Prasanna Venkatesan, "Selection and Standardization of Tamil Keyboard Layouts: Recommendations of Tamilnadu Standardization Committee, Proceedings of TamilNet'97", International Symposium for Tamil Information Processing and Resources on the Internet, National University of Singapore, Singapore, May 1997.
55. S. Kuppuswami, Paul Rodrigues, et. al., "POLE - An OODBMS", Proceedings of the first National conference on object oriented technology (NCOOT'97), KITS, Warangal, August 1997.
56. S. Kuppuswami, M. Shanmugasundaram and R. Nittiagandhi, "Positional invariant pattern classification - A Hybrid Neural Network Approach", Proceedings of the International Conference on Robotics, Vision and Parallel Processing for Industrial Automation (ROVPIA'96), Universiti Sains Malaysia, Malaysia, Nov. 1996.
57. S. Kuppuswami, R. Subramanian et al, "A two phase scalable scheduling algorithm for distributed memory multiprocessor systems", Proceedings of the International Conference on Robotics, Vision and Parallel Processing for Industrial Automation (ROVPIA'96), Universiti Sains Malaysia, Malaysia, Nov. 1996.
58. S. Kuppuswami and K.Vivekanandan, "Computer Aided Instruction Databases using Object-oriented Approach", Proceedings of the International Conference on Educational Computing, TTI, Chandigarh, India, March 1996.
59. S. Kuppuswami and D. Ravi, "Distributed computing environment in a LAN", Proceedings of the IEEE Conference on Applications of Parallel & Distributed Processing, IIT, Kharagpur, January 1993.
60. S. Kuppuswami and V. Prasanna Venkatesan, "Kural- A Tamil Computer Language", Proceedings of the Int. Conference on Tamil and Computer, Anna University, Chennai, August 1994.
61. S. Kuppuswami, F. Andre and A. Joubert, "An intelligent simulation environment for evaluating distributed algorithms and architectures", Proceedings of the International Symposium on AI, Expert Systems and Languages in Modelling and Simulation, Spain, June 1987.
62. S. Kuppuswami and F. Andre, "A multi- microprocessor simulator for systolic architectures", Proceedings of the 2nd European simulation congress, Belgium, Sept. 1986.

63. S. Kuppaswami and F. Andre, "Methodologies for designing and programming systolic architectures" Proceedings of IEEE International conference on computer, systems and signal processing, Bangalore, India, Dec. 1984.

**Research reports & lecture notes:**

1. Microprocessors and their applications, Lecture notes, ISTE summer school, Pondicherry Engineering College, Puducherry, May 1992.
2. Evaluating the performances of the FPS-T series hypercube computer, (co-author : Tourancheau, B, Research report, IMAG, Grenoble, France, March 1988
3. Communication performances of FPS - T20 Hypercube, Research report, CNRS, Lab TIM3, Grenoble, France, December 1987.
4. Etude, Simulation et Experimentation d'Algorithmes Systoliques (in French), Research report, IRISA, Rennes, France, June 1985.
5. Microprocessors, their applications and Minicomputers, Lecture notes, ISTE winter school, Anna University, Chennai, April 1982.
6. Introduction to Microprocessors, Lecture notes, Continuing Education Program, Anna University, Chennai, 1981.
7. COBOL Programming, Lecture notes, Continuing Education Program, Anna University, Chennai, 1981.

***XIV. Conferences/Seminars/Workshops, etc. Organized:***

1. International Conference on Intelligent Computing and Communication for Smart World (I2C2SW), 14<sup>th</sup> - 15<sup>th</sup> December 2018.
2. 9th International Conference On Computing, Communication and Networking Technologies (ICCCNT), IISC, Bengaluru, 10<sup>th</sup> -12<sup>th</sup> July 2018.
3. 2<sup>nd</sup> International Conference on "Sustainable Materials, Design and Applications (ICSMDA 2018)", 16<sup>th</sup> & 17<sup>th</sup> March 2018.
4. International Conference on "Energy, Environment and Advanced Materials for a sustainable Future", 23<sup>rd</sup> & 24<sup>th</sup> May 2017.
5. 6<sup>th</sup> National Level Conference on Challenges and Innovations in Information Technology (CIIT '17), 23<sup>rd</sup> March 2017.
6. National Conference on "Power, Control and Energy Monitoring (NCPCEM – 2017)", 18<sup>th</sup> March 2017.

7. International conference on "Applied Mathematics and Informatics" , 17<sup>th</sup> & 18<sup>th</sup> March 2017.
8. National Conference on "Multidisciplinary Approach to Focus on Strengthening of Infrastructure", 17<sup>th</sup> March 2017.
9. National Conference on Computing & Information Systems [NCCIS '17], 10<sup>th</sup> February 2017.
10. National Conference on VLSI, "Embedded Systems, Signal Processing and Communication," 2<sup>nd</sup> April 2016.
11. International Conference on Sustainable Materials, Design and Applications (ICSMDA 2016) , 18<sup>th</sup> & 19<sup>th</sup> March 2016.
12. National Conference on "Advances in Computational Intelligence and Instrumentation Technology, 7<sup>th</sup> March 2016.
13. National conference on Innovative research trends in computer science and technology, 5<sup>th</sup> March 2016.
14. International Conference on "Transformation for Business Sustainability: Issues and Strategies" 26<sup>th</sup> & 27<sup>th</sup> February 2016.
15. National conference on "Computing and Information Systems" 6<sup>th</sup> February 2016.
16. National Conference on "Advanced Computational Intelligence Techniques for Big Data in Biomedicine and its Applications, 28<sup>th</sup> & 29<sup>th</sup> December 2015.
17. International Conference on "Emerging Approaches and Methods in English Language Teaching-(EAMELT)," Kongu Engineering College, 9<sup>th</sup> & 10<sup>th</sup> December.2015.
18. National Conference on "Research Strategies, Technologies & Upcoming Challenges in Food Science and Biotechnology for Healthier Life (RTCFSB-2015)" 25<sup>th</sup> September 2015.
19. National Conference on "Challenges and Innovations in Information Technology (CIIT-2015), Kongu Engineering College, 27<sup>th</sup> February 2015.
20. National Conference on "Recent Advances in Information Technology and Computer Science" (NCRIC), Kongu Engineering College, 14<sup>th</sup> February 2015.
21. National Conference on "Computing and Information Systems", Kongu Engineering College, 6<sup>th</sup> & 7<sup>th</sup> February 2015.
22. National Conference on Recent Advances in Nanotechnology, Chemistry and Environmental Research (RANCER 2014), Kongu Engineering College, 11<sup>th</sup> & 12<sup>th</sup> December 2014.
23. National Conference on Advances in FOOD, Chemical and Biotechnology, Kongu Engineering College, 12<sup>th</sup> September 2014.

24. National Conference on Networking Intelligence and Computing, Kongu Engineering College, 21<sup>st</sup> March 2014.
25. National Conference on Recent Advances in Information Technology and Computer Science (NCRIC 14), Kongu Engineering College, 21<sup>st</sup> March 2014.
26. National Conference on Computing and Information Systems (NCCIS 2014), Kongu Engineering College, 14<sup>th</sup> March 2014.
27. National Conference on Innovations in Mechanical, Mechatronics & Building Sciences, Kongu Engineering College, 7<sup>th</sup> March 2014.
28. National Conference on Contemporary Practices in Management and Technology, Kongu Engineering College, 5<sup>th</sup> March 2014.
29. National Conference on Challenges and Innovations in Information Technology (CIIT'14), Kongu Engineering College, 21<sup>st</sup> February 2014.
30. National Conference on "Innovations in Mechanical, Mechatronics & Building Sciences (NCIMMBS)", Kongu Engineering College, 25<sup>th</sup> & 26<sup>th</sup> April 2013.
31. National Conference on "Fuzzy Techniques in Image Processing", Kongu Engineering College, 19<sup>th</sup> & 20<sup>th</sup> April 2013.
32. National Conference on "Advances in Computational Intelligence and Instrumentation Technology ACIIT-2013", Kongu Engineering College, 4<sup>th</sup> April 2013.
33. National Conference on "VLSI, Embedded Systems, Signal Processing and Communication (VESCO-2013)", Kongu Engineering College, 20<sup>th</sup> March 2013.
34. National Conference on "Women Entrepreneurship through Science and Technology", Kongu Engineering College, 8<sup>th</sup> March 2013.
35. National Research Conference on "Challenges and Innovations in Information Technology (CIIT2013)", Kongu Engineering College, 22<sup>nd</sup> February 2013.
36. National Conference on "Emerging Trends in Rough Sets, Fuzzy Sets, Data Mining & Granular Soft Computing", Kongu Engineering College, 3<sup>rd</sup> & 4<sup>th</sup> August 2012.
37. National Conference on "Recent Applications of Nanomaterials in Chemistry & Environmental Research", Kongu Engineering College, 20<sup>th</sup> & 21<sup>st</sup> July 2012.
38. National Conference on "Management Practices at Cross Roads", Kongu Engineering College, 4<sup>th</sup> April 2012.
39. International Conference on "Advances in Construction, Manufacturing and Automation Research", Kongu Engineering College, 30 & 31<sup>st</sup> March 2012
40. National Conference on "High Performance Computing", Kongu Engineering College, 14<sup>th</sup> & 15<sup>th</sup> April 2012.

41. National Conference on "Communication and Computing Techniques", Kongu Engineering College, 8<sup>th</sup> & 9<sup>th</sup> March 2012.
42. National Conference on "Information and Communication Technologies", Kongu Engineering College, 10<sup>th</sup> February 2012.
43. National Conference on "Innovation in Mechanical, Mechatronics and Building Sciences", Kongu Engineering College, 29<sup>th</sup> & 30<sup>th</sup> April 2011.
44. National Conference on "Emerging Computing and Communication Technologies", Kongu Engineering College, 10<sup>th</sup> & 11<sup>th</sup> April 2011.
45. National Conference on "Spintronic materials-Nanostructures and devices", Kongu Engineering College, 3<sup>rd</sup> & 4<sup>th</sup> March 2011.
46. National Conference on "Recent Applications of Nanomaterials in Chemistry and Environmental Research", Kongu Engineering College, 16<sup>th</sup> & 17<sup>th</sup> February 2011.
47. "Sixth International Congress on English Grammar", Kongu Engineering College, 9<sup>th</sup> – 13<sup>th</sup> January 2011.
48. International Conference on Communication and Computational Intelligence 2010", Kongu Engineering College, 27<sup>th</sup> – 29<sup>th</sup> December 2010.
49. National Conference on "Data Mining, Spatial & Geo Spatial Database Applications", Kongu Engineering College, 2<sup>nd</sup> & 3<sup>rd</sup> December 2010.
50. National Conference on "Recent Advances in Neural Networks", Kongu Engineering College, 17<sup>th</sup> & 18<sup>th</sup> September 2010.
51. National Conference on "Recent advances in crystal growth and nanoscience", Kongu Engineering College, 26<sup>th</sup> & 27<sup>th</sup> March 2010.
52. National Conference on "Challenges & innovations in IT-2010", Kongu Engineering College, 25<sup>th</sup> March 2010.
53. National Conference on "Impact of Bio Chemical Engineering on Mankind", Kongu Engineering College, 13<sup>th</sup> & 14<sup>th</sup> February 2010.
54. International Conference on Control Automation Communication and Energy Conservation, Kongu Engineering College, June 4-6 2009.
55. National Conference on "Design, Manufacture, and Management for next generation", Kongu Engineering College, 12<sup>th</sup> & 13<sup>th</sup> March 2009.
56. National Conference on "Advanced Computing and Information Systems-IT cluster", Kongu Engineering College, 21<sup>st</sup> February 2009.
57. National Conference on Modern Trends in English Language Teaching and Learning Industry Institute Perspectives, Kongu Engineering College, 6-7 February 2009.

58. National Conference on Technology Applications for Sustainable Developments, Kongu Engineering College, 29 – 30 January 2009.
59. Third workshop on Smart and Secure Environment, Pondicherry University, 21-22 December 2006.
60. Southern Regional Conference on IT enabled Services under Computer Society of India, Pondicherry Chapter, May 2000.
61. Workshop on High Speed and Multimedia Networks , Pondicherry University, 27–28 March, 1999
62. Second National Conference on Object Oriented Technology, Pondicherry University, 22–24 October, 1998
63. Workshop on Recent Trends in Parallel and Distributed Computing, Pondicherry University, 23–24 December, 1996
64. ISTE Summer School on Microprocessors and their Applications, Pondicherry Engineering College, May 1992
65. NCERT's syllabus making programme in Computer Science, Pondicherry Engineering College, 1991
66. Seminar on Computer Viruses, JIPMER campus, Puducherry, 1990
67. 3 modules of DCA – Teachers Training Programme, Sponsored by DOE, Govt. of India, 1988 – 1990
68. Computer Training programmes for Higher Secondary School Teachers, Pondicherry University
69. Many Computer training programmes for the bank employees, particularly State Bank of India in and around Puducherry under the banner of Computer Society of India
70. PC-Expo, an Annual IT exhibition under the banner of Computer Society of India for the benefit of the public from 1992
71. Recursion, an Annual All India Students meet under the banner of Pixel, Computer Science students association, Pondicherry University from 1994.
72. Large number of Seminars organized by inviting experts from Academics (India and Abroad) and Industry for the benefit of Faculty and Students.

**XV. Invited/Endowment Lectures delivered:**

1. Invited lecture on “Choice Based Credit System” at Anna University, Chennai, June 2015.
2. Invited lecture on “Computer Science and Informatics,” National Conference at Anna University Regional Centre Madurai, 17<sup>th</sup> & 18<sup>th</sup> April 2013.

3. Invited lecture on "Information, Communication, Electrical Engineering, Mechanical Engineering, Apparel and Garment Technology and Intelligent Computing", National Conference at Angel College of Engineering and Technology, Tiruppur, 21<sup>st</sup> March 2013.
4. Invited lecture on "Genetic Algorithms – Vision and Applications", National seminar at Nandha College of Technology, Erode on 1<sup>st</sup> March 2013.
5. Invited lecture on "Nuclear Power Plant and its Safety" – one day seminar at Excel Engineering College, 27<sup>th</sup> February 2013.
6. Invited lecture on "Research in Engineering and Technology – Recent Trends" – Two day workshop at Coimbatore Institute of Engineering and Technology, Coimbatore, 9-10 November 2010.
7. Invited lecture on Refresher course in Computer Science at UGC-Academic Staff College, Bharathiar University, 15<sup>th</sup> September 2010.
8. Invited lecture on "Research directions in pervasive computing", at the 94<sup>th</sup> Indian Science Congress, Annamalai University, 3-7 January, 2007.
9. Invited lecture on "Applying Agents to Data Management in Bioinformatics" at the International Conference on Bioinformatics and Diabetes Mellitus, Andhra University, 25-27 March, 2006.
10. Prof. Manisundaram Endowment lecture on Extreme Programming, Bharathidasan University, Trichy, 2006.
11. Invited lecture on "Recent Trends in Architecture" at SSN College of Engineering, Chennai, 26 November, 2005.
12. Invited lecture on "Extreme Programming" and "Agent Based Intelligent Systems" at MISR University for Science & Technology, Cairo, Egypt, Feb. 2005.
13. Endowment Lecture on Object Technology, Annamalai University, Chidambaram, 2002
14. Invited Lecture on Knowledge Management, UGC sponsored national seminar on digitized information exchange, St. Joseph's College, Trichy, 2005.
15. Invited lecture on Intelligent Information Agents, PSG College of Technology, Coimbatore, December 2004.
16. Invited lecture on Software Architecture – An Overview, Coimbatore Institute of Technology, Coimbatore, September 2003.
17. Invited lecture on DotNET Technology, Theivanai Ammal College for Women, Villupuram, September 2003.
18. Invited lecture on Software Agents, National Conference on Software Agents and Embedded Systems, Sri Ramakrishna Engineering College, Coimbatore, 11-12 July 2003.

19. Invited lecture on eXtreme Programming, Crescent Engineering College, Chennai, May 2003.
20. Invited lecture on DotNET, Karpagam Arts and Science College, Coimbatore, August 2002.
21. Invited lecture on Bluetooth Technology, Coimbatore Institute of Technology, Coimbatore, February 2002.
22. Invited lecture on Internet Security, Kongu Engineering College, Perundurai, Nov. 2001.
23. Invited Lecture on Object Oriented Technology & designing with UML, Bharathiar University, Coimbatore, October 2001.
24. Invited Lecture on Data Communication Networks, Karunya Institute of Technology, Coimbatore, August 2001.
25. Invited Lecture on Object Oriented Technology, Bharathiar College of Engineering and Technology, Karaikal, February 2001.
26. Fr. John Britto Endowment Lecture on Object Oriented Technology, St. Joseph's College, Trichy, 2001.

#### **XVI. Projects Handled / Handling :**

1. Received a research project fund of **Rs.100 lakhs from DST under FIST scheme** to strengthen the research facilities at Kongu Engineering College.
2. Received a research project fund of **Rs. 100 lakhs from NTRO, New Delhi for Collaborative Directed Basic Research in Smart and Secure Environment** to execute at Pondicherry University.
3. Responsible for developing an **Integrated University Office Automation System** to make the Pondicherry University as a digital university. The cost of the project is 160 lakhs, of which UGC has funded 110 lakhs. The project is in the final phase of implementation.
4. Responsible for establishing campus wide Computer network in Pondicherry University and providing Internet facility. This project was executed at a cost of 40 lakhs.
5. Executing a research project to develop a **specialized computer system with Tamil Braille language support for visually handicapped** with funding from AICTE - Rs. 15 lakhs.

6. Developed and demonstrated a prototype model of Tamil Computer in 1996. Based on our work Tamil Nadu Govt. has taken up the research on Tamil Computer. Involved in standardizing the **Tamil keyboard - tam99**.

#### **XVII. Educational Innovations:**

1. Responsible for starting B.Arch programme at Kongu Engineering College during the year 2015-16.
2. Responsible for starting B.E. Automobile Engineering at Kongu Engineering College during the year 2015-16.
3. Responsible for NAAC Accreditation status to Kongu Engineering College during 2015-16.
4. Responsible for starting M.Tech. Food Technology at Kongu Engineering College during the year 2013-14.
5. Responsible for starting M.Tech. Information Technology (Information and Cyber warfare) at Kongu Engineering College during the year 2013-14.
6. Responsible for increase in intake from 120 to 240 for the course B.E. Civil Engineering, Kongu Engineering College during the year 2013-14.
7. Responsible for increase in intake from 60 to 120 for the course B.Tech. Chemical Engineering, Kongu Engineering College during the year 2013-14.
8. Responsible for Starting M.E. Structural Engineering in the School of Building and Mechanical Sciences, Kongu Engineering College during the year 2012-13.
9. Responsible for starting M.E. Embedded Systems in the School of Communication and Computer Science Engineering, Kongu Engineering College during the year 2012-13.
10. Responsible for increase in intake from 180 to 240 for the Courses B.E. Mechanical Engineering, B.E. Computer Science and Engineering and B.E. Electronics and Communication Engineering, Kongu Engineering College during the year 2012-13.
11. Responsible for Starting M.E. Power Electronics and Drives in the School of Electrical Sciences, Kongu Engineering College during the year 2011-12.
12. Responsible for starting M.E. Communication Systems in the School of Communication and Computer Science Engineering, Kongu Engineering College during the year 2011-12.

13. Responsible for increase in intake from 120 to 180 for the Courses B.E. Mechanical Engineering, B.E. Computer Science and Engineering and B.E. Electronics and Communication Engineering, Kongu Engineering College during the year 2011-12.
14. Responsible for starting M.E. Computer and Communication Engineering in the School of Communication and Computer Science Engineering, Kongu Engineering College during the year 2010-2011.
15. Responsible for starting M.E. Instrumentation and Control Engineering in the School of Electrical Science, Kongu Engineering College during the year 2010-2011.
16. Responsible for instituting and offering a 3 year “Masters degree in Management Engineering”, an **international collaborative programme** at Pondicherry University in collaboration with **University of Paris X**, Nanterre and Alliance Francaise, Puducherry and acted as the course director.
17. Responsible for starting an innovative **MBA - Banking Technology** programme in collaboration with School of Management and establishing the Banking Technology Department.
18. Responsible for starting the **M.Sc. programme in Statistics** in the Ramanujan School of Mathematics and Computer Science.
19. Responsible for starting the **M.Sc. integrated programme in Mathematics, Statistics and Computer Science** in the Ramanujan School of Mathematics and Computer Science.

#### **XVIII. Special Mentions:**

1. Appointed as the **first Director of Studies, Educational Innovations and rural Reconstruction (Pro Vice Chancellor - a statutory post)** in Pondicherry University.
2. Invited to Pondicherry University, Puducherry as the **first Professor of Computer Science**. Responsible for the establishment of the Computer Science Department and Computer Centre. Instituted 3 post graduate programmes, namely M.Sc., M.C.A. and M.Tech. and research programme. Established a campus recruitment cell for the dept., which provides near 100% placement for students. The students of computer Science Department are rated high amongst the leading IT industries. Computerized majority of the university operations.
3. Appointed as the **first Professor of Computer Science & Engg.** in Pondicherry Engineering College, Puducherry. Responsible for the establishment of the Computer

Science and Engineering Department and the Computer Centre from scratch. The Computer Centre of Pondicherry Engg. College was the **first one to equip with parallel processing machine** among all Engineering Colleges in the Country. The Department was well recognized by the leading IT industries for campus recruitment. **Obtained research recognition** from Pondicherry University. Received **project grants from MHRD** for the development of the department.

4. Appointed as **one of the first two Lecturers in Computer Science** at Anna University. Responsible for the establishment of Microprocessor laboratory and Micro Computer laboratory. Conducted many continuing education programmes in Computer Programming.