RESUME

Name:	**Dr. S. UMA MAHESWARI**
Designation:	Professor
Date of birth:	24.06.1964
Age:	54 Years
Email ID:	umamaheswari@cit.edu.in umamaheswari.cit@gmail.com
Contact No.:	9944756014
Academic Experience:	31 Years
Area of Specialization:	VLSI, Image Processing, Embedded Systems

EDUCATIONAL QUALIFICATION

Degree	Programme / Specialization	% Marks / CGPA	Class	Month & Year of passing	College/University
B.E	Electronics and Communication Engineering	76%	I Class with Distinction	1985	University of Madras, Chennai
M.E	Applied Electronics	80%	I Class	1991	Bharathiar University Coimbatore
Ph.D	Electrical and Electronics Engineering	--	--	June 2009	Bharathiar University Coimbatore
Title of the Thesis	Multimodel Biometric Personal Authentication Solutions for High Security Access in Pervasive Environments				

JOURNAL PUBLICATIONS:

International Journals:
Year 2008 – 2009:

1. S.Uma Maheswari and Dr.P.Anbalagan "Efficient Iris Recognition through improvement in iris segmentation Algorithm", International Journal on Graphics, Vision and Image Processing (GVIP), Vol.8. Issue 2, pp. 29 – 35, July 2008.

Year 2009 – 2010:

2. S.Uma Maheswari and Dr.P.Anbalagan "An Intelligent Multimodal Biometric System for High Security Access", International Journal of Biometrics, Inderscience Publications, Vol.2. No.3, pp. 295 – 311, 2010.

Year 2010 – 2011:

3. S. Uma Maheswari, G. Sathish, S. Narmada, "A Robust Biometric Dual Watermarking Technique with Handvein Patterns", International Journal of Biometrics, Inderscience Publications, Vol.3. No.2, pp. 159 – 174, 2011.

Year 2011 – 2012:

4. S. Kanimozhi Suguna, Dr.S.Uma Maheswari, "Comparative Analysis of Bee-Ant Colony Optimized Routing (BACOR) with Existing Routing Protocols For Scalable Mobile AdHoc Networks (MANETS)", International Journal of Computer, Electronics and Electrical Engineering (IJCEEE), Vol. 2, Issue 2, pp. 31-45, January - June (2012), ISSN 2249 – 9997.

5. S. Kanimozhi Suguna, Dr.S.Uma Maheswari, "Comparative Analysis of Bee - Ant Colony Optimized Routing (BACOR) with Existing Routing Protocols For Scalable Mobile AdHoc Networks (MANETS)", International Journal of Computer Science and Network Security, Vol.12. No.4, pp. 9-14, April 2012. ISSN 1450-216X.

6. B.Premalatha, Dr.S.Uma Maheswari, "Survey Of Online Hardware Task Scheduling And Placement Algorithms For Partially Reconfigurable Computing Systems", International Journal of Computing and Corporation Research, International Manuscript ID: ISSN2249054X-V2I3M6-052012, Vol. 2, Issue 3, May 2012.

Year 2012 – 2013:

7. Subramanian, M.; Kanishkan, V.; Venkatesan, P.; Vivek, S.; S.Uma Maheswari,, "Psychological Stress Monitoring and Reporting System for Industries," India Educators' Conference (TIIEC), Texas Instruments, IEEEXplore, Vol.4, No.6, pp.107-113, April 2013. doi: 10.1109/TIIEC.2013.26

8. Indumathy R and Uma Maheswari S, "Nature Inspired Algorithms To Solve DNA Fragment Assembly Problem: A Survey", International Journal on Bioinformatics & Biosciences (IJBB) Vol.2, No.2, pp. 45-50, June 2012. Impact Factor: 1.6

9. R.Saranya and Dr. S. Uma Maheswari, "A Literature Review on Computer Assisted Detection of Follicles in Ultrasound Images of Ovary, International Journal of Computer Applications, Vol.48, No.12, pp.39-42, June 2012.

10. V. J. Arulkarthick, D. Sangeetha, S. Uma Maheswari, "Sign Language Recognition using K-Means Clustered Haar-Like Features and a Stochastic Context Free Grammar", European Journal of Scientific Research, Vol.78 No.1, pp.74-84, June 2012. Impact Factor: 0.736.

11. S. KanimozhiSuguna, Dr.S.Uma Maheswari, "Comparative Analysis of Bee Ant Colony Optimized Routing (BACOR) with existing Routing Protocols for Scalable Mobile AdHoc Networks (MANETS), International Journal of Computer Engineering & Technology, Vol.3, Issue 1, January-June 2012, pp.232-240, Impact Factor:1.0425. ISSN 0976 – 6367(Print) ISSN 0976 – 6375 (Online).

12. A. Thirunavukarasu and Dr. S. Uma Maheswari, "Fuzzy Metagraph based Knowledge Representation of Decision Support System", International Journal of Computer Engineering & Technology, Vol.3, Issue 2, July-September 2012, pp. 157-166. ISSN 0976-6367 (Print) ISSN: 0976-6375 (Online).

13. A. Thirunavukarasu and Dr. S. Uma Maheswari, "Fuzzy Metagraph and Vague Metagraph based Techniques and their Applications", International Journal of Computer Applications, Vol. 56, No. 6, pp. 6-11, October 2012. ISSN: 0975-8887.

14. A. Thirunavukarasu and Dr. S. Uma Maheswari, "Design and Analysis of Fuzzy Metagraph Based Data Structures", International Journal on Computer Science and Engineering, Vol. 4, No.11, pp.1830-1835.November 2012. ISSN: 0975-3397.

15. A. Thirunavukarasu and Dr. S. Uma Maheswari, "An Efficient Algorithm for Fuzzy based Metagraph ADT", International Journal of Scientific and Research Publications, Vol. 2, Issue.12, pp.7, December 2012. ISSN: 2250-3153.

16. B.Premalatha, Dr.S.Umamaheswari," Survey of Hardware Task Scheduling and Placement algorithms for partially Reconfigurable Computing Systems", International Journal of computing and corporate research, Vol.2, issue 3, ISSN:2249054X, 2012.

17. Subramanian, M.; Kanishkan, V.; Venkatesan, P.; Vivek, S.; S.Uma Maheswari,, "Psychological Stress Monitoring and Reporting System for Industries," *India Educators' Conference (TIIEC), Texas Instruments* , Vol.4, No.6, pp.107-113, April 2013. doi: 10.1109/TIIEC.2013.26

Year 2013-2014:

18. S.Rajan, B.Sinthuja and S.Uma Maheswari, "An Optimization Algorithm for Creating Minimum Size Wireless Sensor Networks", International Journal of Computer Applications (0975 – 8887) Volume 65– No.16, March 2013.

19. R. Indumathy, Dr. S. Uma Maheswari, and Dr. G. Subashini, "A Novel Cuckoo Search Algorithm for Genome Sequence Assembly", Jokull Journal (International), ISSN: 0449-0576, Vol. 63, No.6, June 2013.Impact Factor: 1.6

20. Saravanan Logan, Umamaheswari Sankareswaran,"Performance Analysis of Sensors for Aircraft Control", Journal of vibration and control, DOI: 10.1177/1077546313487764, July 2013, UK. Impact Factor: 1.966.

21. A. Thirunavukarasu and Dr. S. Uma Maheswari, "Technical Analysis of Fuzzy Metagraph based Decision Support System for Capital Market", Journal of Computer Science, Vol. 9, No.9, pp.1146-1155, July 2013. ISSN: 1549-3636.

22. Saravanan Logan, Umamaheswar.S & Manikandan.V 2013, „Design and Analysis of Sensors for Aircraft Indoor Wireless Communication", International Journal of New

Trends in Electronics and Communication Published online, Vol.1, Issue.1A, Aug-2013, India. (Published)

23. A. Thirunavukarasu and Dr. S. Uma Maheswari, "Fuzzy Metagraph based Decision Support System for Stock Market", Jokull Journal, Vol. 63, No.8, pp. 214-222, August 2013. ISSN: 0449-0576.

24. S.KanimozhiSuguna, Dr.S.Uma Maheswari, "Removal of unwanted Region by Metaheuristic Algorithm – Monkey Search Optimization (MSO)", Jokull Journal, Vol.63, No.8, pp.45-51, Impact Factor: 1.604.

25. B.Premalatha, S.Uma Maheswari, "Review of Hardware Task Placement algorithms for Partially Reconfigurable FPGAs", International Journal of VLSI and Embedded Systems-IJVES, Vol. 04, Article 10160; pp. 615-621. October 2013, ISSN: 2249 – 6556.

26. Saravanan Logan, Umamaheswari Sankareswaran, "Advanced Control and Communication Scheme for Aerospace Applications", Journal of Vibration and Control, DOI: 10.1177/1077546314520833, pp. 1-12, February 2014. Impact Factor: 1.966

Year 2014-2015:

27. S. KanimozhiSuguna, Dr.S.Uma Maheswari, 2014, "Removal of Pectoral Muscle Region in Mamogram Image by Metaheuristic Algorithm - Monkey Search Optimization (MSO)", Asian Journal of Information Technology, Vol.63, No.8, pp.45-51, Impact Factor: 1.2679.

28. S. KanimozhiSuguna, Dr.S.Uma Maheswari, 2014, "Classification of Feature extracted, selected and segmented Mamogram Image by using hybrid Algorithm - Monkey Search Optimization (MSO) Support Vector Machine (SVM)", Research Journal of Applied Sciences, Vol.9, No.2, pp.110-118.

29. S. KanimozhiSuguna, Dr.S.Uma Maheswari, 2014, "Performance Analysis of Feature extraction and selection of region of interest by segmentation in mammogram images between the existing metaheuristic algorithms and Monkey Search Optimization (MSO)", WSEAS Transactions on Information Sciences and Applications, Vol.11, pp.72-88, 2014.

30. B.Premalatha, Dr.S.Umamaheswari, "Selective fitting strategy based real time placement algorithm for dynamically reconfigurable FPGAs" International Journal of Research in Engineering and Technology-IJRET, Vol. 03 Issue: 04, eISSN: 2319-1163, pISSN: 2321-7308, 2014.

31. A.N.Senthilvel, Dr. S. Uma Maheswari, T Hemalatha, "Heuristic Robust Algorithm to Optimize Sequencing of Jobs on a Single Machine", Proceedings of International Conference on Advances in Manufacturing and Material Engineering, Elsevier Publications, Vol.5, pp. 1473–1481, 2014. doi: 10.1016/j.mspro.2014.07.467

Year 2015-2016:

32. R. Indumathy and S. Uma Maheswari, "An adaptive particle swarm optimization algorithm for solving DNA fragment assembly problem" Current Bioinformatics. Vol. 10, No. 1, pp. 97-105, 2015.

33. R. Indumathy, S. Uma Maheswari and G. Subhashini "Nature-Inspired Novel Cuckoo Search Algorithm for Genome Sequence Assembly" Sadhana, Vol. 40, No. 1, pp. 1-14, 2015.

34. V.J.Arulkarthick and S.Uma Maheswari, "Hand Posture Recognition using Shape Context Elastic Matching and Fast Condensed NN algorithm", International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.67, June 2015.

35. Puvaneswari G & UmaMaheswari S, „Multiple Parametric Faults Detection in Linear Analog circuits based on Test Vectors and Statistical Threshold", International Journal of Applied Engineering Research, 2015, vol.10, no. 8, pp. 20475-20488, ISSN : 0973-4562.

36. Puvaneswari G & UmaMaheswari S, „Test Vector based Multiple Parametric Faults Detection in Nonlinear Analog circuits", International Journal of Applied Engineering Research, 2015,vol.10, no. 11, pp. 27683-27694, ISSN : 0973-4562.

37. Puvaneswari G & UmaMaheswari S, „Test vector based multiple soft faults detection in linear analog circuits with hardware implementation", ARPN Journal of Engineering and Applied Sciences, 2015, vol. 10, No.14, pp. 1-8, ISSN :1819-6608.

38. Puvaneswari G & UmaMaheswari S, „Test Point Selection and Multiple Soft Faults Detection in Linear Analog circuits based on Multiple Frequency Measurements", Indian Journal of Research, 2015, vol.4, no.7, pp. 42-46, ISSN : 2250-1991.

39. Puvaneswari G & UmaMaheswari S, „Fault Dictionary based single Hard Fault Detection in NonLinear Analog circuits", International Journal of Research Studies in Science, Engineering and Technology, 2015, vol.2, no.7, pp. 37-44, ISSN 2349-4751 (Print) & ISSN 2349-476X (Online).

40. Puvaneswari G & UmaMaheswari S, „Single Hard Fault Detection in Linear analog Circuits Based on Simulation before Testing Approach", International Journal of Engineering Research and Development, 2015, vol.11, no.7, pp.01-07,e-ISSN: 2278-067X, p-ISSN: 2278-800X, ANED-DDL 06.067X/A1170107.

41. Puvaneswari G & UmaMaheswari S, „Test Variables Selection and Multiple Parametric Faults Detection in Non Linear Analog Circuits", International Research Journal of Engineering and Technology, 2015, vol.2, no.7, pp.190-195, e-ISSN: 2395-0056, p-ISSN: 2395-0072.

42. B.Premalatha, Dr.S.Umamaheswari, "A Fast First Fit Hardware Task Placement Algorithm For Partially Reconfigurable FPGAs Using Windowing-Or-Logic Method", International Journal of Applied Engineering Research, ISSN 0973-4562 Vol.10, No 8, pp. 19681-19702, 2015.

43. B.Premalatha, Dr.S.Umamaheswari, "Design of Fast Adders with Optimal Placement and Routing in FPGAs Using Muxed AOI Logic", Journal of Advances in Natural and Applied Sciences ISSN:1995-0772 EISSN: 1998-1090. Vol. 9, No. 7, pp: 63-73 2015.

44. B.Premalatha,Dr.S.Umamaheswari, "Attractive and Repulsive Particle Swarm Optimization Algorithm based Wire length Minimization in FPGA Placement", International Journal of VLSI Design and Communication systems(IJVDCS), ISSN : 2322-0929, IF 2.0124, Vol.03, Issue 04, July-2015.

45. Saranya R & Uma Maheswari S 2015, „A New Approach for Follicles Detection from Ovarian Images Research on Medical Imaging", Journal of Pure and Applied Microbiology, vol. 9, pp. 31-36, Published Online, (Annexure I). IF – 0.073

46. Saranya R & Uma Maheswari S 2016, „Follicle detection in Ovary image using Adaptive Particle Swarm Optimization", Journal of Medical Imaging and Health Informatics, vol. 6, pp. 125-132, 2016,(Annexure I). IF – 0.642

47. Saranya R & Uma Maheswari S, „A novel Pigeon Inspired Optimization in Ovarian Cyst Detection‟, Current Medical Imaging Reviews, vol. 12, issue. 1, pp.43-49, 2016, (Annexure I). IF – 0.730

48. Saranya R & Uma Maheswari S 2015, „Computer Aided System For Segmenting Region of Interest in Medical Images using Optimization Algorithm‟, International Journal of Applied Engineering Research, vol. 10, no.14, pp. 33970-33975, ISSN: 0973-4562(Annexure II). IF – 0.166

49. Saranya R & Uma Maheswari S 2015, „Comparative Analysis of Computer Aided Segmentation of Ovarian Images‟, International Journal of Applied Engineering Research, vol. 10, no. 13, pp. 33234-33237, (Annexure II). IF – 0.166

50. Saranya R & Uma Maheswari S 2015, „Speckle Noise Reduction Of Ultrasound Images Using Modified Fuzzy Filtering‟, International Journal of Applied Engineering Research, vol. 10, no.20, pp. 19916-19925, (Annexure II). IF – 0.166

51. Rajan, S & Uma Maheswari, S 2016, „Optimization Algorithm for Efficient Coverage and Connectivity for Wireless Sensor Networks‟, in the Asian Journal of Information Technology, ISSN 1682-3915,vol.15, no.12, (May 2016), pp. 2057-2063.

Year 2016-2017:

52. Rajan, S & Uma Maheswari, S 2016, „Creating an Optimization Algorithm for the Minimum Size of the Wireless Sensor Networks‟, in the Asian Journal of Research in Social Sciences and Humanities, E-ISSN 2249-7315, vol.6, no.8 (August 2016), pp.390-403.

53. T. Yathavi and S. Uma Maheswari, "Design and Development of Reconfigurable Microstrip Patch Antenna for Secure Communication", Middle-East Journal of Scientific Research vol. 24, no.9, pp. 2832-2842, October 2016 DOI: 10.5829/ idosi. mejsr. 2016.24.09.23873.

54. Sowmiya J, Karthika P.S., Dr. S. Uma Maheswari, Dr. G.Puvaneswari, Design of Level Shifter by using Multi Supply Voltage", International Research Journal of Engineering and Technology (IRJET), vol. 3, no. 11, November, 2016.

National Journal:

Year 2008 – 2009:

55. S.Uma Maheswari and Dr.P.Anbalagan "An Efficient Matching Classifier for hand vein recognition in use authentication systems", i-Managers Journal on Electrical Engineering, January 2009.

CONFERENCE PUBLICATIONS:

International Conferences:

Year 2010 – 2011:

1. Thirunavukkarasu, Dr. S. Uma Maheswari, "Efficient Shortest Path Algorithm of Metagraph Data Structures", International Conference on Intelligent Information Systems and Management – IISM‟10, organized by RVS college of Engineering and Technology, Coimbatore and Oakland University, USA, during June 10-12, 2010.

Year 2011 – 2012:

2. Thirunavukkarasu, Dr. S. UmaMaheswari, "Analyzing the Phishing Webpages using Datamining Approach", International Conference on Furturistic Trends in Computer

Science Engineering & Information Technology (ICCT 2012), organized by Thiruvalluvar College of Engineering and Technology, Vandavasi, in association with International Society of Automation (ISA) held during 28th and 29th January 2012.

Year 2013-2014:

3. Saravanan Logan, Umamaheswari Sankareswaran, Manikandan Venugopal, "Performance Analysis of Multicarrier Modulation for Aircraft Wireless Sensors Communication", *2013* IEEE Conference on Wireless Sensors (ICWiSe2013), December 2-4, 2013, Kuching, Sarawak, Malaysia, Page no-71-83.

4. Saravanan Logan, Umamaheswari Sankareswaran, Manikandan Venugopal, "Analysis of Wireless System Design for Aircraft Indoor Wireless Sensor Communication", 2013 IEEE International RF and Microwave Conference, December 9-11, 2013, Penang, Malaysia.

5. T. Mahalakshmi, B. Premalatha, S. Uma Maheswari, "Firefly Algorithm Based Placement and Routing of Hardware Tasks in 2D Homogeneous FPGAs", International Conference on Intelligent Instrumentation, Optimization and Signal Processing, Organized by ECE Dept Karunya Institute of Technology, Coimbatore, 2013.

6. A.Archana and Dr. S. Uma Maheswari," Analysis of DICE Latch Based shift register" in IEEE International Conference on Circuit, Power and Computing Technologies (ICCPCT"16) organized by Noorul Islam University, Nagerkoil, on 18th March 2016.

National Conferences:
Year 2010 – 2011:

1. Kirubananthan. G. and Dr. S. Uma Maheswari, "Joint Compression and watermarking System using DCT for copyright of digital colour images", National Conference on Emerging Trends in Computer Communication and Information – ETCCI 2011, Technically cosponsored by CIIT International Journal held on 10-11 March 2011, Organized by Tamil Nadu College of Engineering, Coimbatore.

Year 2011 – 2012:

2. Dr. S.Uma Maheswari, P.Nithyakalyani, "Constructing Minimum Size Wireless Sensor Networks To Provide Critical Square Grid Coverage Using Steiner Tree Based Critical Grid Coverage Algorithm", DRDO Sponsored Third National Conference on Innovation in Information Technology, NCIIT"12, Organized by Department of Computer Science, Bannari Amman Institute of Technology, Sathyamangalam, 24th and 25th February, 2012.

3. Dr. S.Uma Maheswari, S. X. Roger Antony, "Vessel Tree Segmentation In Lung Images Affected By Interstitial Lung Diseases", DRDO Sponsored Third National Conference on Innovation in Information Technology, NCIIT"12, Organized by Department of Computer Science, Bannari Amman Institute of Technology, Sathyamangalam, 24th and 25th February, 2012.

4. Dr. S.Uma Maheswari, T.Sasikumar, "Optimal Contrast Tone-Mapping Using Linear Programming For Image Enhancement", DRDO Sponsored Third National Conference on Innovation in Information Technology, NCIIT"12, Organized by Department of Computer Science, Bannari Amman Institute of Technology, Sathyamangalam, 24th and 25th February, 2012.

Year 2012–13:

5. S. Kumaraguru and Dr. S. Uma Maheswari, " Survey on Pseudo Colour Image Processing", Second National Conference on Green Communication, Computing and Networks (GCOMPNETS 2012), Organized by Department of Electronics and Communication Engineering, Coimbatore during 13-14 December, 2012.

6. T. Mahalakshmi and Dr. S. Uma Maheswari, "Cooperative Virtual MIMO Scheme for Multihop Wireless Sensor Networks", Second National Conference on Green Communication, Computing and Networks (GCOMPNETS 2012), Organized by Department of Electronics and Communication Engineering, Coimbatore during 13-14 December, 2012.

Year 2013 – 2014:

7. D.Kiruthiga Devi and S. Uma Maheswari, "Integrating Optimal Features for Image Retrieval using Genetic Algorithm", TEQIP II sponsored National Conference on Electronics, Signal Processing, Communication and Embedded Systems (NCESCES"14) held during 27-28, February2014.

8. Vanathi and S. Uma Maheswari, "Adaptive Moving Object Detection in Live Videos using Frame Matching Algorithm", Fifth National Conference on Recent Trends in Communication Engineering, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Coimbatore, during 26th – 27th February, 2014.

Year 2014-2015:

9. D.Dinesh and S. Uma Maheswari," IoT Based Automated Irrigation System Using CoAP Protocol", TEQIP (phase II) sponsored National Conference on Information And Communication Technologies (NCICT"15), Organized by Department of Electronics and Communication Engineering, Coimbatore during $(19-20)^{th}$ February, 2015.

10. S.L.Khaavya and S. Uma Maheswari, "Placement Compelled Steering Algorithm for wire length minimization in FPGA", TEQIP (phase II) sponsored National Conference on Information and Communication Technologies (NCICT"15), Organized by Department of Electronics and Communication Engineering, Coimbatore during $(19-20)^{th}$ February, 2015.

11. T. Loganayaki and S. Uma Maheswari, "Design and Performance Analysis of Low Power Multipliers", TEQIP (phase II) sponsored National Conference on Information and Communication Technologies (NCICT"15), Organized by Department of Electronics and Communication Engineering, CIT, Coimbatore during $(19-20)^{th}$ February, 2015.

Year 2015-2016:

12. T. Yathavi and Dr. S. Uma Maheswari, "Design and Analysis of Reconfigurable Microstrip Patch Antenna for Secure Communication", National Conference on Circuits, Networks & Systems (NCCNS"16), Organized by Department of Electronics and Communication Engineering, CIT, Coimbatore on 22nd April, 2016.

13. A. Ashok and Dr. S. Uma Maheswari, "Design of Microstrip Antenna using Fractals for UWB Applications", National Conference on Circuits, Networks & Systems (NCCNS"16), Organized by Department of Electronics and Communication Engineering, CIT, Coimbatore on 22nd April, 2016.

14. A.Archana and Dr. S. Uma Maheswari," Design of DICE Latch using different Logic Styles", National Conference on Circuits, Networks & Systems (NCCNS"16), Organized

by Department of Electronics and Communication Engineering, CIT, Coimbatore on 22nd April, 2016.

15. S.Pavithra and Dr. S. Uma Maheswari," Programmable Gain-Bandwidth Butterworth Anti-Aliasing Low Pass Filter", National Conference on Circuits, Networks & Systems (NCCNS"16), Organized by Department of Electronics and Communication Engineering, CIT, Coimbatore on 22nd April, 2016.

Year 2015-2016:

16. Sowmiya J and Dr. S. Uma Maheswari, "Improvement of Linearity in Integrator Circuits using Switched Capacitor" National Conference on Innovations and Emerging Technologies for Future Smart Cities (NCIETFSC"17), Organized by Department of Electronics and Communication Engineering, CIT, Coimbatore during 6th – 7th April 2017.

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES/BODIES:

1. Life Member in Indian Society for Technical Education. Membership No: LM 01369.
2. Life Member in Systems Society of India. Membership No: LM 22036.
3. Life Member in Institution of Engineers (India) Membership No. M – 128244 – 6.
4. Charted Engineer.

PARTICIPATION IN ADMINISTRATIVE ACTIVITIES:

1. Question Paper Review Committee Member, Autonomous Examinations, CIT, Coimbatore.
2. Organizing Committee Member of one day National Seminar on **"Effective Electrical Energy Development - Challenges and Solutions"**, sponsored by Institution of Engineers (India) conducted during 6th - 7th Feb, 1998, CIT, Coimbatore.
3. Organizing Committee Member of International Conference on "**Digital Aided Modeling and Simulation"**, 6th - 8th January 2003, Coimbatore Institute of Technology, Coimbatore.
4. Organizing Committee Member of International Conference on **"Responsive Supply Chain and Organizational Competitiveness (RSC-2004): A Technology Watch"**, Coimbatore Institute of Technology, Coimbatore, 5th -7th January, 2004.
5. Staff Advisor, Students Technical Symposium, "Interface 2006".
6. Organizing Committee Member in the International Conference on **"Sensors, Security, Software and Intelligent Systems" (ISSSIS 2009)**, organized by the Circuit Branches of Coimbatore Institute of technology, Coimbatore, 8-10 January 2009.
7. Organizing Committee Member in the International Conference on **"Embedded Systems"** organized by Department of Electrical and Electronics Engineering, Coimbatore Institute of technology, Coimbatore, 14-16 June 2010.

8. Member of "Student Welfare and Extra Curricular Activities Committee", 2012-2013 and 2013-2014.
9. Member of Academic Council, Coimbatore Institute of Technology, 2014-15, 2015-16.
10. Auditor, Academic Auditing, UG and PG Courses, every year.
11. Member, Examination and Disciplinary Committee, 2016 – 2017, 2017 – 2018, 2018-2019.
12. Member, Library Committee, 2018 – 2019, 2019 – 2020.

AWARDS:

1. Awarded **I Prize** for the guided B.E. Project Titled "PC Based Three Axes Robot using Stepping Motors", by M/s Premier Polytronics, Coimbatore, in the year 1997.
2. Project entitled, "Psychological stress monitoring and reporting system for industries" done by V.Kanishkan, S.Vivek, M.Subramanian, P.Venkatesan, has been presented for TI India Analog Design Contest 2012-2013, Organized by Texas Instruments India and was short listed for entry into phase I, as one of the top 25 projects.
   The Paper was accepted for publication in IEEE Journal.
   Subramanian, M.; Kanishkan, V.; Venkatesan, P.; Vivek, S.; S.Uma Maheswari,, "Psychological Stress Monitoring and Reporting System for Industries," India Educators' Conference (TIIEC), Texas Instruments,IEEEXplore, Vol.4, No.6, pp.107-113, April 2013. doi: 10.1109/TIIEC.2013.26
3. Won the best project award for the U.G. project entitled "Robust and Dynamic Text Recognition in Real Time Videos", Students Name: A.M.Mohammed Shakir Aslam, S. Mohan Kumar, P.L.Swaminathan, J.Vivek Verriah, S.Abdhul Kaseem. Supervisor: Dr. S. Uma Maheswari, Co. Supervisor: Ms. K. M. Priya, for the academic year 2013-14.
4. Won the Sessions Best Paper Award for the paper entitled, "Integrating Optimal Features for Image Retrieval using Genetic Algorithm", in the TEQIP II sponsored National Conference on Electronics, Signal Processing, Communication and Embedded Systems (NCESCES"14) held during 27-28, February2014. Authors of the paper: Ms. D.Kiruthiga Devi and Dr. S. Uma Maheswari.
5. Won the best project award for the P.G. project entitled "Robust Foreground Object Extraction in Live Videos", Candidate Name: B. Vanathi (Reg. No. 1268017). Supervisor: Dr. S. Uma Maheswari, for the academic year 2013-14.
6. Received the Certificate of Commemoration on completing 25 years of service in teaching, August 2014.
7. Won the best project award for the P.G. project entitled, "Design and Simulation of a Programmable Gain Bandwidth Eight order Butterworth Anti-Aliasing Low Pass Filter ", for the Academic Year 2015-2016, (M.E. VLSI-2014 Batch).

OTHERS:
1. Handled and presently the Co-Ordinator for the subject "Science of Creativity and Personality Development", for B.E. / B. Tech. degree students since 1988 to till date.
   The students are motivated to acquire the following qualities.
   - Philosophy and Purpose of Life.

- Knowledge of interaction among the individual, society and the world.
- Stress and Strain Management.
- Introspection.
- Development of Physical, Intellectual and Moral values.

2. Served as Chair Person in Technical Sessions for many National and International Conferences.
3. Expert member – Anna University, Chennai for University Affiliation.
4. Doctoral committee member for few Ph.D Scholars under Anna University, Chennai.
5. Member of board of studies for other Autonomous Institutions
   - Government College of Technology, Coimbatore
   - KSR College of Engineering, Tiruchengode SNS
   - College of Technology, Coimbatore. Kumaraguru
   - College of Technology, Coimbatore.
   - Sri Krishna College of Engineering and Technology, Coimbatore (University Nominee), 2018-2019.
6. Examiner for evaluation of thesis of M.S. by Research.
7. Examiner for Ph.D. Research –Anna University, Chennai.
8. Expert Member for staff selection in Anna University Affiliated Colleges.
   - Sri Sakthi Institute of Engineering and Technology, Coimbatore.
   - RVS College of Engineering, Coimbatore.
   - Sri Guru Institute of Technology, Coimbatore.
   - Kumaraguru College of Technology, Coimbatore.
9. Member Technical Committee, International Conference on Advances in Computational Intelligence in Communication, CIC 2016, Organized by Department of Electronics and Communication Engineering, Pondicherry Engineering College during October 19 & 20, 2016.

REVIEWER: Imaging Science Journal

S. UMA MAHESWARI