

**Assoc. Prof. Dr. SATHISH KUMAR SELVAPERUMAL, B.E.,  
M.E., Ph. D., C.Eng. (U.K), MIET, MIEEE, MISTE, Grad. Eng. (BEM)**

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Mobile No: 0060173420103, Email: [dr.sathish@apu.edu.my](mailto:dr.sathish@apu.edu.my)

**A) PERSONAL INFORMATION**

Father's Name : K. Selva Perumal  
Date of Birth (DD/MM/YY) : 16/11/1979  
Age : 40 Years

Current Working University : **Asia Pacific University of Technology and Innovation (APU),  
Kuala Lumpur, Malaysia.  
Partner with De Montfort University (DMU), (U.K)**

Current Position : Program Leader for Telecommunication Engineering &  
Diploma in Electrical & Electronics Engineering  
Final Year Project Manager

Current Address : No: B-10-5, Arena green apartments,  
Jalan 1/155A, Bukit Jalil, Kuala Lumpur,  
Malaysia-57000.

Current Mobile Number : 0060173420103,

**B) ACADEMIC INFORMATION:**

**Academic Qualification:**

Particulars	Discipline/ Subjects	Name of School/College/ University	Year of Passing	Passing of Marks/Division/ OGPA along with Percentage
High School	-	Sir.M.Venkata Subba Rao Matriculation Higher Secondary Boys School, T.Nagar, Chennai -17	March 1995	First Class with 80%
Inter/+2	-	Sir.M.Venkata Subba Rao Matriculation Higher Secondary Boys School, T.Nagar, Chennai -17	March 1997	First Class with 84%
Graduation Bachelor of Engineering [B.E]	Electronics and Communication Engineering [E.C.E]	Arulmigu Meenakshi Amman College of Engineering, Kanchipuram (Affiliated to Madras University)	April 2001	First Class with 77%
Post Graduation Master of Engineering [M.E]	Applied Electronics [A.E]	Arulmigu Meenakshi Amman College of Engineering, Kanchipuram (Affiliated to Anna University)	April 2006	First Class with 78%
Ph.D	Image Processing [E.C.E]	SCSVMV University, Kanchipuram	<b>Aug 2014</b>	-----

**TEACHING EXPERIENCE DETAILS:**

**Total experience: 19 Years as on June 2020 (including other assignments)**

Post Held (Starting from Present Post)	Name and Address of Institution with phone/email/website details	Period	Nature of Duties in brief
<p>Program Leader for Telecommunication Engineering (HoD);</p> <p>Program Leader for Diploma in Electrical &amp; Electronics Engineering (HoD);</p> <p>Final Year Project Manager (SoE);</p> <p>Associate Professor</p> <p>Senior Lecturer</p>	<p>Asia Pacific University of Technology and Innovation, in collaboration with DE MONTFORT UNIVERSITY (DMU),UK</p>	<p>Dec-2017- Till Date</p>	<p>Handled Theory subjects and corresponding Lab. Supervisor for FYP and Internship. Advisor for Rotaract club &amp; Basket Ball, Program Leader for Telecommunication Engineering &amp; Final Year Project Manager.</p> <p>Guiding Master students by Research and Phd students.</p>
<p>Program Leader for Telecommunication Engineering (HoD);</p> <p>Final Year Project Manager (SoE);</p> <p>Senior Lecturer</p>	<p>Asia Pacific University of Technology and Innovation, in collaboration with STAFFORDSHIRE UNIVERSITY,UK</p>	<p>Sept-2011- Dec 2017</p>	<p>Handled Theory subjects and corresponding Lab. Supervisor for FYP and Internship. Advisor for Rotaract club &amp; Basket Ball, Program Leader for Telecommunication Engineering &amp; Final Year Project Manager.</p> <p>Guiding Master students by Research and Phd students.</p>
<p>Lecturer</p>	<p>Asia pacific University College of Technology and Innovation (UCTI), in collaboration with STAFFORDSHIRE UNIVERSITY,UK</p>	<p>Aug 2010 -Aug 2011</p>	<p>Handled Theory subjects and corresponding Lab. Supervisor for FYP and Internship. Advisor for ESIG (Engineer's Special Interest Group)</p>
<p>Assistant Professor</p>	<p>Prathyusha Institute of Technology and Management, Thiruvallur District</p>	<p>Aug 2007 - Jul 2010</p>	<p>Handled Two Theory subjects and one Lab, One of the projector coordinator ,Time table in - charge and microprocessor lab in-charge</p>
<p>Senior lecturer</p>	<p>Prathyusha Institute of Technology and Management, Thiruvallur District</p>	<p>July 2006 – July 2007</p>	<p>-----do-----</p>
<p>Lecturer / HOD I/C</p>	<p>Karpaga Vinayaga College of Engineering and Technology</p>	<p>June 2001 – June 2006</p>	<p>Handled Two Theory subjects and one Lab, undergone all administrative works for inspection, approval, etc..</p>

In summary, **Table 1** gives the leadership roles undertaken along with the period in APU (Malaysia), PITAM (India) & KVCET (India).

**Table 1: Summary of Leadership roles undertaken till date**

SNO	Leadership Roles	Period	Under APU
1	Program Leader for B.Eng (HOD) Telecommunication Engineering & Final Year Project (FYP) Manager (SoE)	2012 – till date	✓
2	Module Leader	8 Modules <ul style="list-style-type: none"> <li>• Digital Signal Processing</li> <li>• Signals and Linear Systems</li> <li>• Microprocessor Systems and Embedded Software</li> <li>• Microwave and RF Communication</li> <li>• Optical Communication and Networks</li> <li>• Project Phase 1 &amp; 2</li> <li>• Group Design Project (GDP)</li> </ul>	✓
3	Final Year Project Manager	31 intakes till date  (UC4F1201 to UC4F1910)	✓
4	Group Design Project Manager	19 intakes till date  (UC4F1411 to UC4F1910)	✓
5	Academic Development Program	5 sessions	✓
6	Lecturer & Head of Department Incharge (KVCET)	2001 – 2005	X
7	Senior Lecturer & Assistant Professor (PITAM)	2005-2010	X

### C) TEACHING & LEARNING:

Teaching and Learning is essential for any educator and is important in academic careers. The portfolio is to show a) self-evaluation of past teaching experiences (modules taught), b) workshops & trainings attended, c) Seminar & invited talks attended, d) workshops & trainings conducted, e) Final Year Project Supervision (undergraduate and Master's) and PhD Supervision and e) feedback ratings.

To ensure that the knowledge imparted to the students are based on the current trends and usage of latest technology being used during delivery, various workshops, training, invited talks were attended as tabulated in **Table 2**.

**SUBJECTS HANDLED:**

**UG:**

- Medical Electronics
- Digital Electronics
- Digital Logic Circuits
- Signals and Systems
- Digital Signal Processing
- Computer Communication & networks
- Communication Theory and Systems
- Optical Communication
- Analog, Digital and Data Communication
- Satellite Communication
- High Speed Networks
- Telecommunication Switching System
- Microprocessor and Microcontrollers
- Neural Networks and Fuzzy logic
- Artificial Intelligence
- Digital Image Processing
- Electronic Circuits II
- Control systems
- Electromagnetic Field Theory
- VLSI design
- Physical Electronics

**PG:**

- Advanced Digital System Design
- Low Power VLSI
- High Performance Communication Network
- Digital Image Processing
- Digital Control System
- Mobile computing

In summary, **Table 2** reflects the level of knowledge gained and imparted to students and colleagues.

**Table 2:** Knowledge gained and shared

Sno	T/L Activities	Level	Description
1	Modules Taught	Undergraduate level	13 modules at APU & 20 modules outside APU
		Master level	5 modules
2	Workshops, Training & Faculty development Programme Attended	-	52
3	Seminars and Invited Talks Attended	-	50
4	Workshops & Trainings conducted	-	18
5	FYP Supervised	Engineering (Undergraduate)	>50
		Master - Engineering & Non-Engineering	>10
6	PhD	-	2

**D) R&D and Consultancy:**

My research areas and teaching interest include Image Processing (Segmentation, Compression, Image Fusion, Image Restoration), Speech Processing, Artificial Intelligence, Biomedical applications, Antenna design, Wireless communication, and Wireless power transfer, Internet of Things, Robotics and Sustainability.

**Table 3** and **Table 4** provides the list of professional body memberships and list of industrial projects supervised and completed.

**Table 3:** List of Professional Body Membership

Professional Bodies	Level (Fellowship; Associate; Affiliate)	Duration
ISTE – Indian Society for Technical Education	-	LIFE MEMBER
IET – The Institution of Engineering and Technology	Membership Number - 1100272277	MEMBER (Since 2012 till date)
IEEE – Institute of Electrical and Electronics Engineers	Membership Number - 92186928	MEMBER (Since 2012 till date)
IACSIT-International Association of Computer Science and Information Technology	Membership Number- 80344241	LIFE MEMBER (Since 2012)
IAENG- International Association of Engineers	Member No: 120486	LIFE MEMBER (Since 2012)
IEICE – The Institute of Electronics, Information and Communication Engineering	Member No: 1483935	MEMBER (Since 2016 till date)

**Table 4:** List of industrial projects supervised

SNO	Project title	Industry
1	Design and develop an RFID based E-Kanban reordering system for raw material monitoring (Supervisor)	Kings Plastic, Malaysia
2	Automatic Detection of Member of Parliaments (MPs) attendance (Supervisor)	Sinar Project, Malaysia
3	Detection of Glove Defects based on Vision Control (Co-supervisor)	Top Glove, Malaysia
4	Development of sensor mechanism for monitoring water quality in fish industry (Co-supervisor)	Signal Transmission (M) Sdn. Bhd.
5	Development of Intelligent Fish Feeding Mechanism (Co-supervisor)	Signal Transmission (M) Sdn. Bhd.
6	Development of Low Payload Wind Turbine Mechanism and Electrical System for Electricity Generation (Co-supervisor)	ERL Maintenance Support Sdn. Bhd. (E-MAS)
7	Data Extraction with Optical Character Recognition (OCR) to Construct Piping Diagram (Co-supervisor)	LCC Industrial Supply and Engineering Sdn. Bhd
8	Car Make and Model Recognition System using Deep Learning (Supervisor)	MIMOs
9	Artificial Intelligence in Power Energy Forecasting (Co-supervisor)	Plus Solar
10	Development of Data Acquisition System for industrial IoT (Supervisor)	P-Quest MSC
11	Autonomous Robot for Food delivery based on SLAM method (Supervisor)	Blue Ocean IT

I have a passion for my research in serving the society and others with improved information and hope to enrich other researchers with the knowledge found. Hence, I am continuing my research work in the areas mentioned above and in near future will be identified for the contribution to the society.

#### **PUBLICATIONS:**

##### **INTERNATIONAL JOURNAL:**

1. **Enhanced Patient Monitoring System with IOT**, Solid State Technology, Vol. 63, No. 1s, pp. 1063-1069, 2020.
2. **Wind Powered Short-range communication between Motorcyclist and Passenger**, Solid State Technology, Vol. 63, No. 1s, pp. 1330-1342, 2020.
3. **Hybrid Precoding for Energy Conservation in HetNets**, Solid State Technology, Vol. 63, No. 1s, pp. 1003-1014, 2020.
4. **Wheel Chair/Person Fall Detection with IOT**, Solid State Technology, Vol. 63, No. 1s, pp. 911-922, 2020.
5. **Automated Smart Hydroponics System using IOT**, International Journal of Electrical and Computer Engineering (IJECE), Vol. 10, No. 6, pp. 6389-6398, 2020.

6. **Literature Review on Biomedical Imaging Technique for Detection of Brain Tumour**, Journal of Advanced Research in Dynamical & Control Systems, Vol. 12, 03-Special Issue, 2020.
7. **Improved 3D Antenna for Human Head Imaging Applications**, TEST Engineering & Management, Vol. 83, pp. 184-194, 2020.
8. **Harvesting Energy from Human Walking and Health Monitoring System**, TEST Engineering & Management, Vol. 83, pp. 287-292, 2020.
9. **Remote Real-Time Monitoring System for Out-Of-Hospital Patients**, TEST Engineering & Management, Vol. 83, pp. 332-339, 2020.
10. **Design and Development of Hexapedal Robot to achieve High level of Mobility**, TEST Engineering & Management, Vol. 83, pp. 179-188, 2020.
11. **IOT Based Pet Feeder**, TEST Engineering & Management, Vol. 83, pp. 269-279, 2020.
12. **High Gain Compact Multi-band Microstrip Patch Antenna for 5G Network**, International Journal of Advanced Science and Technology, Vol. 29, No. 01, pp. 1344-1358, 2020.
13. **Bandwidth Analysis of Microstrip Antenna With Fractal Design for 2.4 GHZ Wireless Applications**, International Journal of Advanced Science and Technology, Vol. 29, No. 01, pp. 1344-1358, 2020.
14. **High gain Rectangular Single patch Antenna at MM Wave band**, International Journal of Advanced Science and Technology, Vol. 29, No. 01, pp. 1390-1410, 2020.
15. **ANN-Based Maximum Power point Tracking of a Variable-Speed wind Energy Conversion system using SEPIC Converter**, International Journal of Advanced Science and Technology, Vol. 29, No. 01, pp. 189-205, 2020.
16. **Integrated Animal Health Care Using IOT**, International Journal of Advanced Science and Technology, Vol. 29, No. 01, pp. 42-56, 2020.
17. **Multi Band High Gain Microstrip Patch Antenna at Ka-Band (26 GHz)**, Journal of Advanced Research in Dynamical and Control Systems, Vol.11, 12-Special Issue, pp. 667-673, 2019.
18. **Modified Compact 2x4 Slotted Array Antenna**, Journal of Advanced Research in Dynamical & Control Systems, Vol.11, 11-Special Issue, pp. 870-876, 2019.
19. **Random Forest Classifier for Extracting Water bodies from Pansharpened Image to Detect Surface Water Changes**, International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958, Volume-9 Issue-1, (2019).
20. **High Gain 2x2 Slotted Array Antenna for 5G Mobile applications**, International Journal of Electronics and Telecommunication (IJET), Vol. 65, No.4, pp. 557-563 (2019).
21. **Interactive on Smart Classroom System using Beacon Technology**, International Journal of Electrical and Computer Engineering (IJECE), 9(5), pp. 4250-4257, (2019).
22. **Design Challenges for 3 Dimensional Network-on-Chip (NoC)**, Lecture notes on Data Engineering and Communication technologies, book series, pp. 773-782, (2019).
23. **Integrated Wireless Monitoring System using LoRa and Node-Red for University Building**, Journal of Computational and Theoretical Nanoscience, 16, pp. 3384-3394, (2019).
24. **Autonomous Shopping Trolley using Color Navigation**, Journal of Computational and Theoretical Nanoscience, 16, pp. 3560-3564, (2019).
25. **Optimization of Total Harmonic Distortion in Multilevel PV Inverters using Genetic Algorithm**, Journal of Computational and Theoretical Nanoscience, 16, pp. 3565-3570, (2019).
26. **Wireless Charging System Using Spectral Energy Harvesting Technique**, 15(1), Indonesian Journal of Electrical Engineering and Computer Science, pp. 314-323 (2019).

27. **Protection System for Industrial Motors using Vibration sensor and Arduino Microcontroller**, International Conference on Computer Vision and Machine Learning, IOP Conf. Series: Journal of Physics: Conf. Series 1228 (2019).
28. **IoT Based car parking management system with an Application Program Interface** , International Conference on Computer Vision and Machine Learning, IOP Conf. Series: Journal of Physics: Conf. Series 1228 (2019).
29. **Smart Tree Care System with Internet of Things**, Research Journal of Applied Science, Engineering and Technology, Maxwell Scientific Publication Corp., (2018).
30. **Review of Car Make & Model Recognition Systems**, Journal of Applied Technology and Innovation (e-ISSN: 2600-7304), vol. 2, no. 2, pp. 1-10, (2018).
31. **Active RFID System with Wireless Sensor Network for Power**, Journal of Applied Technology and Innovation (e-ISSN: 2600-7304) vol. 2, no. 1, (2018).
32. **A Novel approach for new-born authentication and verification using multi-biometric features**, in the Biomedical Research, Vol. 28(5), pp. 2040-2045, (2017).
33. **Speech to Text Synthesis from Video automated subtitling using Levinson Durbin method of Mel Frequency Cepstrum Coefficient**, in the International Journal of Video & Image Processing and Network Security, IJVIPNS-IJENS, Vol. 17(01), pp. 1-11, (2017).
34. **Speech to Text Synthesis from Video automated subtitling using Levinson Durbin method of Linear Predictive coding**, in the International Journal of Applied Engineering Research, Vol.10(4), pp. 9611-9629, (2016).
35. **Design and Analysis of a Circular Ring Patch Antenna Array for UHF Applications**, in the "Theory and Applications of Applied Electromagnetics, Vol. 344 series of Lecture Notes in Electrical Engineering, Springer International Publishing, pg - 275-285.
36. **Integrated Multi-stage Biometric System Design**, in the International Journal of Applied Engineering Research, Vol.10 (4), pp. 9611-9629, (2015).
37. **Gain Enhancement of Axial Mode Helical Antenna for UAV Applications**, in the International Journal of Simulation: System, science and Technology, Vol.16, No. 4 (2015)
38. **Enhanced gain and reduced size circular microstrip patch antenna array for WiMax applications**, in the International Journal of Applied Engineering Research, Vol.10, No. 3, pp. 8221 - 8230, (2015).
39. **Printed G-shaped monopole antenna for wireless sensor networks**, in the International Journal of Applied Engineering Research, Vol. 10 (5), 2 Pages: 12583-12592, (2015).
40. **Improved Speech Recognition using Neural Network**, in the International Journal of Applied Engineering Research, Vol.9 (18), pp. 4297-4325, (2014).
41. **Automated Classification of Coronary artery disease using discrete wavelet transform and back propagation neural network**, in the academic journals-Scientific Research and Essays, ISSN: 1992-2248, Vol 9, No. 10; May 2014, pp.440-451, (2014).
42. **Real Time Aerial Marine Surveillance System for Safe Navigation**, in the International Journal of Mechanical and Mechatronics Engineering, Vol 1, No. 12, 2014. (International Science Index)
43. **Improved Face Detection using Morphology Operations and Neural Network**, in the Mitteilungen Klosterneuburg Journal, pp. 140 – 162, (2014).
44. **Integrated Finger Print Recognition using Image Morphology and Neural Network**, in the International Journal of Advanced Studies in Computer Science and Engineering, IJASCSE, Vol.3, No.1, pp. 40 – 48, (2014).
45. **Bandwidth enhancement of CPW- fed G-shaped monopole antenna at 5.85 GHz for WiMax**, in the International Journal of Advanced studies in Computers, Science and Engineering, Vol 2, Special issue 1, (2013).



46. **Integrated method of Automatic Coronary Angiogram Image Segmentation**, in the peer reviewed Jokull Journal, Iceland, ISSN: 0449-0576, Vol 63, No. 6; Jun 2013, pp. 277-298, (2013).
47. **Automated Segmentation of Coronary Angiogram Images using DWFIS**, in the peer reviewed Archives Des Science, Archives of Science Journals, Switzerland, Geneva, ISSN: 1661-464X, Vol.66, No.3, pp. 151- 168, (2013).
48. **An Improved Automated Segmentation of Coronary Angiogram Images using PCM**, in the peer reviewed Wulfenia Journal, Klagenfurt, Austria, ISSN: 1561-882X, Vol.20, No.1, pp. 284- 305, (2013).
49. **Automated Segmentation of Angio Vessels**, in the Special Issue of International Journal of Computer Applications (0975 – 887) on Advanced Computing and Communication Technologies for HPC Applications, (2012).

#### **INTERNATIONAL CONFERENCE:**

50. Presented a paper entitled **“Enhanced Object detection and Tracking Algorithm in complex videos”**, in the IEEE conference on Advances in Electrical, Electronics, Information, Communication and Bioinformatics (AEEICB-18).
51. Presented a paper entitled **“Modified Triple Band Microstrip Patch antenna for Higher 5G bands”**, in the IEEE conference on Advances in Electrical, Electronics, Information, Communication and Bioinformatics (AEEICB-18).
52. Presented a paper entitled **“Compact Multiband Microstrip Patch Antenna with Slot-Rings for Wireless Applications”** in the IEEE Student conference on Research and Development (SCORED), Kuala Lumpur, 2017.
53. Published a paper entitled **“Design of simple DC-to-DC Wireless Power Transfer via inductive coupling”**, in the IEEE 3<sup>rd</sup> International conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics, 27-28 February, Chennai, India, 2017.
54. Published a paper entitled **“FPGA for Multi Input Multi Output Orthogonal Frequency Division Multiplexing”**, in the IEEE 2<sup>nd</sup> International conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics, 27-28 February, Chennai, India, 2016.
55. Published a paper entitled **“Haar wavelet transform based text extraction from complex videos”**, in the IEEE 2<sup>nd</sup> International conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics, 27-28 February, Chennai, India, 2016.
56. Published a paper entitled **“Recognition of facial expression using bit by bit scanning and probabilistic matching”**, in the IEEE 2<sup>nd</sup> International conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics, 27-28 February, Chennai, India, 2016.
57. Published a paper entitled **“Design and Development of Hexapedal Robot to achieve high level of Mobility”**, in the proceedings of the International Conference on Modern , Intelligent and Green Manufacturing (IGMIGM), 11-12 December, Erode, India, 2015.
58. Published a paper entitled **“Wireless Asset Tracking System (WATS) using GPS and GSM for open environment applications”**, in the proceedings of the International Conference on Modern , Intelligent and Green Manufacturing (IGMIGM), 11-12 December, Erode, India, 2015.
59. Published a paper entitled **“A Review of Energy Detection and Cyclostationary Sensing Techniques of Cognitive Radio Spectrum”**, in the IEEE Student conference on Research and Development (SCORED), Kuala Lumpur, 2015.

60. Published a paper entitled **“Improved Multi axes solar tracking system and analysing on power generated power consumed by the system”**, in the International Conference on Information, System and Convergence Applications, Putrajaya, Malaysia, (2015).
61. Published a paper entitled **“Gain Enhancement of Axial Mode Helical Antenna for UAV Applications”**, in the 6th International Conference on Intelligence Systems, Modelling and Simulation, 9-12 Feb 2015, Pg 237-241. (IEEE Computer Society digital library IEEE-Xplore).
62. Published a paper entitled **“Improved Bandwidth for CPW-fed- G-shaped Monopole Antenna for 2.4 GHz WLAN Application”**, IEEE conference on IOCEPC, (2013).
63. Published a paper entitled **“Design and analysis of a Tri-band G- shaped Monopole Antenna for Bandwidth Improvement for wireless applications of Measurement Parameters in MIMO Environment”**, in IEEE conference International Conference on Smart Instrumentation, Measurement and Application (ICSIMA), November, ( 2013).
64. Published a paper entitled **“AUTOMATED SEGMENTATION OF ANGIO VESSELS”**, in the **Special Issue of International Journal of Computer Applications (0975-887) on Advanced Computing and Communication Technologies for HPC Applications-ACCTHPA, June 2012.**
65. Published a paper entitled **“EDGE DETECTION OF ANGIOGRAM IMAGES USING THE CLASSICAL IMAGE PROCESSING TECHNIQUES”**, in the IEEE International conference on **“ADVANCES IN ENGINEERING, SCIENCE AND MANAGEMENT ICAESM 2012”**, at EGS Pillay Engineering College, Nagapattinam, Tamil Nadu, India, March 2012.
66. Presented & published a paper entitled **“A FAST QUALITY MODEL FOR IMAGE COMPRESSION USING MSPIHT (MODIFIED SET PARTITIONING IN HIERARCHICAL TREES)”**, in the International conference **“Emerging Technologies in computer science & Engineering ICETCSE – 2010”**, at Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada, Andhra Pradesh, India.
67. Paper entitled **“AN IMPROVED METHOD OF SEGMENTATION USING FUZZY – NEURO LOGIC”** has been **Accepted** at the **23<sup>rd</sup> Canadian conference, IEEE CCECE 2010** conducted by the Electrical and computer Engineering, Alberta, Canada and **Presented and Published** at the **2<sup>nd</sup> International Conference** conducted by the Electronics and Computing Technology, **ICECT 2010, Kuala Lumpur, Malaysia on May 7 – 10, 2010.** Also the paper got published in the IEEE Explorer.
68. Presented & published a paper entitled **“FACE DETECTION USING WAVELET TRANSFORM AND RBF NEURAL NETWORK”**, in the International conference **“ICCI – 2010”**, at Velammal College of Engineering and Technology, Madurai, Tamil Nadu, India.

#### **NATIONAL JOURNAL:**

69. Submitted a paper entitled **“BLOOD VESSEL DETECTION OF CORONARY ANGIOGRAPHY IMAGE USING FUZZY AND COGNITIVE FUZZY ISODATA METHODS”**, for publishing in **"VRUKSHA" an Annual Journal to be released from SCSVMV University in JULY 2012.**
70. Published a paper entitled **“FACE DETECTION USING ADAPTIVE NEURAL NETWORK”**, in the **Indian Research Review, volume – 1 , issue – 3, may-july 2010, ISSN Number:0975-7430, NI Number: TNENG/2009/30438.**

#### **NATIONAL CONFERENCE:**

71. Presented & published a paper entitled **“Face Detection using Neuro-Wavelet Transform”** in a National Conference **TNCDC-2010** at R.M.K Engineering College, Chennai, Tamil Nadu.
72. Presented & published a paper entitled **“JPEG 2000 Compression using Haar wavelet Transform”** in a National Conference **EMIT’10** at Saveetha Engineering College, Chennai, Tamil Nadu.
73. Presented & published a Paper entitled **“A MEDICAL IMAGE COMPRESSION USING MSPHIT”**, in the National conference **“NITAC-2010”**, at Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu.
74. Presented & published a Paper entitled **“A NOVEL GABOR BASED APPROACH WITH PCA FOR FACE RECOGNITION”**, in the National conference **“NITAC-2010”**, at Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu and won the **BEST PAPER AWARD**.
75. Presented & published a paper entitled **“A NOVEL CLUSTERING METHOD FOR ABNORMAL BRAIN IMAGE”** in a National Conference **NCACN-2009** at Panimalar Engineering College, Chennai, Tamil Nadu.
76. Presented & published a Paper entitled **“IRIS PATTERN RECOGNITION USING MULTI-CHANNEL LOG-GABOR FILTERING AND HAAR TRANSFORM”**, in the National conference **“NCACS ‘10”**, at Hindustan college of Engineering & Technology, Coimbatore, Tamil Nadu.
77. Presented & published a Paper entitled **“DIGITAL IMAGE COMPRESSION USING ADAPTIVE PREDICTION TREE (APT)”**, in the National conference **“Network Technologies”**, **NCNT’09**, at Sri Venkateswara College of Engg & Technology, Chittoor, Andhra Pradesh.
78. Presented & published a paper entitled **“CLUSTERING OF BRAIN IMAGES USING FUZZY LOGIC (FL)”** in a National Conference **NETSC-2009** at R.M.D Engineering College, Chennai, Tamil Nadu.
79. Presented & published a paper entitled **“HAND IDENTIFICATION USING FUZZY FEATURE MATCHING (FFM)”** in the **IET National Conference NETSC-2009** at R.M.D Engineering College, Chennai, Tamil Nadu.
80. Presented & published a paper entitled **“SEGMENTATION OF MEDICAL IMAGES OF THE BRAIN USING NEURAL NETWORKS”** in a National Conference **NCET-2007** at Kalasalingam University, Tamil Nadu.
81. Presented & published a paper entitled **“WAVELET BASED IMAGE RETRIEVAL SYSTEM FOR PATHOLOGY STUDIES”** in a National Conference **NCII - 2006** at Dayananda Sagar College of Engineering, Bangalore & in a National Conference **NCVSPCom – 2007** at Siddaganga Institute of Technology, Tumkur, Karnataka.

In summary, my contribution in the professional membership, technical reviewer, technical advisory committee member, sessions chaired and quality research publications so achieved & industrial projects guided are summarized in **Table 5**.

**Table 5:** Summary of Professional & Research Publications

SNO	Description	Numbers	Under APU
1	Professional Membership	5	4
2	Technical Reviewer in International Conferences	>20	>20
3	Technical Advisory Committee member for International Conferences	11	11
4	Sessions Chaired	5	5
4	International Journal papers published	49	49
5	International Conference papers published	19	17
6	National Conference papers published	11	0
7	National Journal	2	0
8	Industrial Projects	11	11

**E) Engagement & Citizenship:**

Engagement with the professional bodies and wider community representing APU is essential, apart from teaching and learning in an educational industry. I have contributed myself to society as a service extended beyond teaching & learning as an academic not only within APU, but also outside APU as a Special Guest, Guest Lecture, Key note speaker and marketer in India and Nepal. **Table 6** summarizes the engagement to the society under the APU banner.

**Table 6:** Summary of engagement to the society under the APU banner

SNO	Description	Numbers
1	APU Club Advisors	4
2	Special Guest	10
3	Keynote Speaker	22
4	Guest Lecture	8
5	Edu fairs	Participated Every year

**F) OTHER INFORMATION:****COMPUTER SKILLS:**

Skill / Programme	Excellent	Intermediate	Beginner	None
Word	√			
Excel	√			
Power Point	√			
Acess	√			
Internet	√			
Web Design			√	

**PROFICIENCY IN LANGUAGES:**

Language	Read	Write	Speak
English	√	√	√
Hindi	√	√	√
Tamil	√		√
Telugu			√

I certify that the information given above is true, complete and correct to the best of my knowledge and belief.

Date: 11.11.20

Place: Kuala Lumpur, Malaysia

Sathish Kumar Selvaperumal

Signature of the Candidate