

SELVAGANAPATHY MANOHARAN, M. E., (Ph.D.), MISTE,

Phone: +91 – 80981 – 90456

eMail: ganapathyselva111@gmail.com

CAREER FOCUS

To continue my career at a highly reputed and eminent educational institute and to gain exceptional career move ahead through long efforts and performance regularity.

STRENGTHS

- ☒ Extensive experience of tutoring and mentoring graduate students.
- ☒ A thorough professional with a proactive attitude, capable of thinking in and out of the box, generating new design solutions and ideas.

ACADEMIC CREDENTIALS

- ☒ Pursuing Doctorate of Philosophy in Digital Image Processing under the stream of Electronics and Instrumentation Engineering from Annamalai University.
- ☒ Completed Master of Engineering in the Stream of Communication Systems from Mailam Engineering College with a CGPA of 8.1.
- ☒ Completed Bachelor of Engineering in the Stream of Electronics & Communication Engineering from Krishnasamy College of Engineering and Technology with an aggregate of 65%.
- ☒ Completed H.S.C in Krishnasamy Memorial Matriculation Higher Secondary School, Cuddalore with an aggregate of 80.3%.
- ☒ Completed Secondary Schooling in St. Joseph's Higher Secondary School, Cuddalore with an aggregate of 83.6%.

PROFESSIONAL EXPERIENCE

- ☒ Currently working as an Assistant Professor in CK COLLEGE OF ENGINEERING AND TECHNOLOGY, CUDDALORE from June 2014.
- ☒ Worked as an Assistant Professor and Placement Coordinator in MAILAM ENGINEERING COLLEGE, MAILAM from July 2012 to November 2013.

SUBJECTS AND LABORATORIES HANDLED

- ☒ RF & Microwave Engineering (Electronics & Communication Engg.).
- ☒ Digital Signal Processing (Computer Science & Engineering).
- ☒ Principles of Digital Signal processing (Electronics & Communication Engg.).
- ☒ Advanced Digital Signal Processing (M. E – Applied Electronics)
- ☒ Digital Logic Circuits (Electrical & Electronics Engineering).
- ☒ Antenna & Wave Propagation (Electronics & Communication Engg.).
- ☒ Wireless Networks (Electronics & Communication Engg.).
- ☒ Multi – Core Architecture (M. E – Applied Electronics).
- ☒ VLSI Design (Electronics & Communication Engg.).
- ☒ Computer Networks (Electronics & Communication Engg.).
- ☒ Electronic Circuits – II (Electronics & Communication Engg.)

- ☒ Digital Image Processing (M.E – Applied Electronics).
- ☒ Advanced Digital System Design (M. E – Applied Electronics).
- ☒ Optical and Microwave Laboratory (Electronics & Communication Engg.).
- ☒ Digital Signal Processing Laboratory (Electronics & Communication Engg.).
- ☒ Computer Networks Laboratory (Electronics & Communication Engg.).
- ☒ Microprocessor and Microcontroller Laboratory (Computer Science and Engg.).
- ☒ VLSI Design Laboratory (Electronics & Communication Engg.).
- ☒ Electronic System Design – I Laboratory (M. E – Applied Electronics).

OUTSIDE WORLD INTERACTIONS

- ☒ Participated in the National Level Online Quiz conducted by Texas Instrument India on ANALOG and secured Third Position with honor certificate.
- ☒ Participated in various National Level Online Quiz by Texas Instruments India on WEBENCH, TIVA, DSP, Microcontroller, MSP430 and received a participation certificates.
- ☒ Visited the Technology Incubation Centre of Vellore Institute Technology organized by the Entrepreneurship Development Cell of CKCET.
- ☒ Attended a Guest Lecture and Workshop on start – up business in Entrepreneurship Summit (E – Summit) conducted by National Institute of Technology, Trichy.
- ☒ Attended a workshop on the title “Block Chain Technology” in National Institute of Technology, Trichy.
- ☒ Participated in three days workshop on “Real time signal acquisition & processing using open source software SCILAB” in National Institute of Technology, Trichy.
- ☒ Participated in International seminar on “Impact of Electromagnetic radiations on humans” in SCSVMV University, Kanchipuram.
- ☒ Participated in one day workshop on “Effective journal paper preparation using LaTeX Software” organized by the Research & Development Cell at CK College of Engineering and Technology, Cuddalore.
- ☒ Participated in one day workshop on “Integrating MATLAB Simulink with Xilinx software” in Anna University Regional Campus, Coimbatore.
- ☒ Participated in one day workshop on “Emotional Intelligence” in CK College of Engineering and Technology, Cuddalore.
- ☒ Participated in two days workshop on “Effective mentoring and self – management Leadership using NLP” at CK College of Engineering and Technology, Cuddalore.
- ☒ Participated in ISTE staff chapter organized “Inter Disciplinary Faculty Upgradation Program conducted” at CK College of Engineering and Technology, Cuddalore.
- ☒ Participated in two days value added course on “Role Model Teacher” at CK College of Engineering and Technology, Cuddalore.
- ☒ Participated in one day Workshop on “Research Methodology” organized by Research & Development Cell at CK College of Engineering and Technology, Cuddalore.
- ☒ Participated in one day seminar on “Various Research Schemes in Science and Engineering Research” organized by the Research & Development Cell at CK College of Engineering and Technology, Cuddalore.

ACADEMIC RESPONSIBILITIES

- ☒ Under – Graduate Projects Guided: 10

- ☒ Post – Graduate Projects Guided: 04 (01 as a Co – Guide)
- ☒ Acting as a Institute’s Innovation Cell – MHRD Innovation Cell Convener for the academic year 2019 – 20.
- ☒ Acted as an Examiner for the Central Anna University Answer Script Evaluation for the academic year 2017 – 18 (Odd Semester) and 2018 – 19 (Odd Semester).
- ☒ Acted as an EDC Coordinator and motivated many students to become an Entrepreneur.
- ☒ Acted as a Students’ Association Coordinator and organized various Industry Oriented Guest Lectures, Motivational Programs and Certification courses under Students’ Association Forum.
- ☒ Acted as a Team Leader for the admission process for the academic years 2016 – 17, 2017 – 18 and 2018 – 19.
- ☒ Organized a National Level Technical Festival “NEITHAL 4.0” and “NEITHAL’16”.
- ☒ Acted as a committee head in organizing the State Level Technical Festival NEITHAL’17, NEITHAL’15, National Level Conference on Cutting Edge Technologies in Electrical and Electronic Systems (CETEES’18).
- ☒ Acted as a Class Advisor for the Academic Years 2016 – 17, 2017 – 18 and 2018 – 19.
- ☒ Acted as a committee head in organizing a National Level Conference on Smart and Digital Electronic Systems (NCSDES 2017) in CK College of Engineering and Technology, Cuddalore.
- ☒ Acted as a College – Level Secretary for Staff Welfare Club, Entrepreneurship Development Cell Coordinator and Industrial Practical Knowledge Training / Industrial On – Job Training coordinator during NAAC process.
- ☒ Acted as an overall Training Coordinator and placed various students in various reputed companies for the academic year 2015 – 16.
- ☒ Acted as a Training & Placement Coordinator for the academic year 2016 – 17.
- ☒ Acted as a Student’s Counselor and motivated many students to bring forth their talent in academics as well as in Co – Curricular activities.
- ☒ Acted as an Innovation Club Coordinator and motivated the students in participating and winning paper presentation.
- ☒ Acted as a team coordinator for the department review meetings held at CKCET for the academic year 2014 – 15 and 2015 – 16.
- ☒ Guided three project batches to submit the project proposal to Punjab Govt. during the academic year 2014 – 15.

EXTRA ACTIVITIES

- ☒ Attended one week yoga program conducted by Art of Living, Cuddalore at CKCET.
- ☒ Actively participated in various blood donation camps conducted in CK College of Engineering and Technology, Cuddalore and donated blood for 12 times.
- ☒ Acted as a coordinator for Environmental Welfare Club and planted more trees in the college premises.
- ☒ Won Volley Ball Staff Championship for the years 2014 – 15, 2015 – 16, 2016 – 17 and 2018 – 19 in CK College of Engineering & Technology, Cuddalore.
- ☒ Organizing various awareness program on “Organ Donation – The ROAD” in schools and colleges of Cuddalore District in association with Lions Club of Cuddalore Golden City, Cuddalore.

CONFERENCE PUBLICATIONS

- ☒ M. Selvaganapathy, M. Hemalatha, “An effective optimization & high authenticate feature extraction in digital watermarking using 2 – level DWT transform”, *National Conference on Innovation in Engineering Science & Technology*, March 2015.
- ☒ G. Manikannan, T. Manochandar, M. Selvaganapathy. “Reduction of power consumption in VLSI by energy efficient low power CMOS Design”, *International Conference on Emerging Trends in Electronics Communication and Computing Technology*, May 2016.
- ☒ M. Selvaganapathy, R. Kayalvizhi, N. Mahendran, “An Effective optimization for feature extracted image using Particle Swarm Optimization”, *Proceedings of TEQIP – II Sponsored International Conference on Contemporary Topics in Power Engineering and Aiding Technologies (ICCPEAT'2017)*, February 2017.
- ☒ M. Selvaganapathy, N. Nishavithri, T. Manochandar, “Integrated 0.4 KV bus monitoring and Drives Control of Fuel Oil Pump House MCC in Thermal Power Station in NLC”, *Proceeding of International Conference on Science, Technology Engineering and Management SEDISC 17*, pp. 133 – 138.
- ☒ M. Selvaganapathy, N. Nishavithri and T. Manochandar, “Automated bus monitoring and drive control system in Thermal Power Station II”, *IEEE Third International Conference on Science Technology Engineering and Management 2017*”, pp. 38, ISBN: 978 – 93 – 84659 – 77 – 6.
- ☒ D. Sengeni, M. Selvaganapathy and T. Manochandar, “Fuzzy based mine detecting robot using virtual instrumentation”, *National Conference on Smart and Digital Electronic Systems (NCSDED2017)*, April 2017.
- ☒ M. Rizvana and M. Selvaganapathy, “A Robust Video Watermarking Technique using DWT and SVD with Geometric Attacks”, *Proceedings of National Conference on Technical Revolution, ISBN No: 978 – 81 – 930856 – 4 – 6*, pp. 146, February 2018.
- ☒ G. Roja, M. Selvaganapathy, “A Video Watermarking technique using Discrete Curvelet Transform”, *Proceedings of National Conference on Technical Revolution (NCTR'19), Feb 2019*.
- ☒ M. Selvaganapathy, Dr. R. Kayalvizhi, “Multi Level Video Watermarking using DWT and SVD”, *Proceedings of National Conference on Technical Revolution (NCTR'19), Feb 2019*.
- ☒ M. Selvaganapathy, D. Vidhyalakshmi, A. Sathiya, S. Sri Lakshmi Priya, N. Subashini, “Design and Development of Health Monitoring Dashboard in Government Hospitals using IoT”, *Proceeding of International Conference on Recent Trends in Science, Engineering and Technology*, March 2019.
- ☒ M. Selvaganapathy and Dr. R. Kayalvizhi, “Multi – Level Wavelet and Curvelet based Video Watermarking for Copyright Protection”, *International Conference on Multi – Disciplinary Research Studies and Education*, ISBN: 978-93-89107-18-0, pp. 79 – 86, June 2019, Hyderabad.

JOURNAL PUBLICATIONS

- ☒ M. Selvaganapathy and N. Nishavithri, “Smart Wheel Chair using Neuro – Sky Sensor”, *International Journal of Advance Research in Computer and Communication Engineering*, Volume 4, Issue 11, November 2015, P. No. 361 – 366.
- ☒ Selvaganapathy Manoharan, Nishavithri Natarajan, “Brain controlled wheelchair for the physically challenged people using Neuro – Sky Sensor”, *International Journal of*

- Innovative Research in Science, Engineering & Technology*, Volume 4, Issue 12, December 2015, P. No. 11985 – 11992.
- ☒ M. Selvaganapathy, N. Nishavithri, R. Nithya, “Predictability analysis algorithm for optimal precision allocation in Wireless Sensor Network applications”, *International Journal of Engineering Research and General Science*, Volume 3, Issue 6, November – December 2015, P. No. 736 – 743.
 - ☒ S. Suganya, M. Selvaganapathy, N. Nishavithri, “Comparison of warping filter banks using MATLAB based Feature Extraction techniques in ASR”, *International Journal of Innovative Research in Computer and Communication Engineering*, Volume 4, Issue 5, May 2016.
 - ☒ M. Selvaganapathy, K. Mahendran, P. Prabakaran, “Smart watermarking concept using Multi – level Discrete Wavelet Transform”, *International Journal of Engineering Trends and Technologies*, ISSN: 2231 – 5381, Vol. 40, No. 6, October 2016.
 - ☒ G. Manikannan, P. Prabakaran, M. Selvaganapathy, “Optimization of Leakage power and inrush current in MTCMOS Designs using Wakeup Control Technique”, *International Journal of Engineering Research*, ISSN: 2321 – 7758, Vol. No. 4, Issue No. 6, November – December 2016.
 - ☒ M. Selvaganapathy, N. Nishavithri, T. Manochandar, A. Nivetha, “Optimal Precision allocation through PA algorithm in Wireless Sensor Network applications”, *International Journal of Engineering Research*, ISSN: 2321 – 7758, Vol. No. 4, Issue No. 6, November – December 2016.
 - ☒ M. Selvaganapathy, N. Nishavithri, T. Manochandar, G. Manikannan, “Modern vehicle for the physically challenged people using blue eye technology”, *International Journal of Mechanical Engineering and Technology*, 8 (1), 2017, pp. 208 – 212. (SCOPUS Indexed)
 - ☒ M. Selvaganapathy, N. Nishavithri and T. Manochandar, “Integrated 0.4 KV bus monitoring and drives control of Fuel Oil Pump House MCC in Thermal Power Station in NLC”, *Middle East Journal of Scientific Research*, pp. 875 – 880, ISSN: 1990 – 9233, DOI: 10.5829/idosi.mejsr.2017.875.880. (Anna University Annexure – II Journal)
 - ☒ M. Selvaganapathy, N. Nishavithri, G. Manikannan, “Design Firmware for 360 degree Imaging and Calibration using Virtual Instrumentation”, *International Journal of Engineering Development and Research*, ISSN: 2321 – 9939, Volume 5, Issue 3, pp. 1002 – 1005, September 2017 (Thomson Reuters Researcher ID: B – 5936 – 2016).
 - ☒ M. Rizvana and M. Selvaganapathy, “A Video Watermarking Technique using DWT and SVD”, *International Journal for Research in Applied Science & Engineering Technology*, Volume 5, Issue 10, pp. 2217 – 2226, October 2017. (UGC Approved Journal)
 - ☒ M. Selvaganapathy, N. Nishavithri, T. Manochandar, “Authenticated Automatic Ration Shop using RFID and GSM”, *International Journal for Research in Applied Science and Engineering Technology*, Volume 6, Issue 4, April 2018 (Thomson Reuters Researcher ID: N – 9681 – 2016).
 - ☒ G. Roja, M. Selvaganapathy, “A Survey on Domain based Watermarking Techniques”, *International Journal of Research and Analytical Reviews*, Volume 5, Issue 4, pp. 911 – 916, Oct. – Dec. 2018. (eISSN: 2648 - 1269) (UGC Approved Journal).
 - ☒ M. Selvaganapathy, D. Vidhyalakshmi, A. Sathiya, S. Sri Lakshmi Priya, N. Subashini, “Design and Development of Health Monitoring Dashboard in Government Hospitals using IoT”, *Journal of Applied Science and Computation*, ISSN No.1076 – 5131, pp. 518 – 521, Vol. 6, Issue 3, Mar 2019.

AFFILIATES

- ☒ Membership in Institute of Electrical & Electronics Engineers (IEEE) Madras Section. (Membership ID: 93955814).
- ☒ Institutional Secretary in Institute of Electrical & Electronics Engineers (IEEE) Control System Society. (Membership ID: 93955814).
- ☒ Life time membership in Indian Society for Technical Education (ISTE), New Delhi. (Membership ID: LM114843).
- ☒ Membership in Teacher and Education Research Association (TERA) – Eurasia Research. (Membership ID: TERA – M192031).
- ☒ Membership in Institute for Engineering Research and Publication (IFERP). (Membership ID: PM7006011).
- ☒ Life time membership in International Society for Research and Development (ISRDR). (Membership ID: M4150903149).
- ☒ Membership in Universal Association of Computer and Electronics Engineers. (Membership ID: AM101000582358).
- ☒ Membership in International Association for Engineers (IAENG). (Membership ID: 172815).

ONLINE COURSES PURSUED

- ☒ Audited the online course on “IoT Networks and Protocols” and “IoT Programming and Big Data” (Course Website: edX).
- ☒ Completed a Diploma Course on “RPA Developer Foundation Training” and secured a certificate with an aggregate of 80% (Course Website: UiPath).
- ☒ Completed online course on “Introduction to Wireless and Cellular Communication” and secured NPTEL certificate. (Course Website: NPTEL)
- ☒ Completed online course on “Resume, Networking and Interview Skills” in FullbridgeX, Career Edge 5x and secured an honor code certificate with 92% (Course Website: EdX)
- ☒ Completed online course on “Signals and Systems – part 1” in IIT, Mumbai and secured an aggregate of 74% (Course Website: EdX).
- ☒ Completed online course on “Communication and Team work” in FullbridgeX, Career Edge 5x and secured an honor code certificate with 89% (Course Website: EdX)
- ☒ Completed online course on “Computer Networking – Digital Network Security” in Alison and secured a certificate with 80% (Course Website: Alison)
- ☒ Completed online course on “Fundamentals of Digital Image and Video Processing” in Northwestern University and secured a verified certificate with 82% (Course Website: Coursera)
- ☒ Completed online course on “Digital Communication Networks” and secured a verified certificate with 90% (Website: Alison)
- ☒ Completed online course on “CCNP Route Labs” and secured a completion certificate. (Website: Udemy)
- ☒ Completed online course on “User Experience for Web (WebUX)” and secured a certificate with 85% (Course Website: open2study)
- ☒ Completed online course on “Microprocessor and Microcomputers” and secured a completion certificate (Course Website: Udemy)

PEER JOURNALS REVIEWER & EDITORIAL BOARD MEMBER

- ☒ Acted as a reviewer for the IEEE – ICACCI Poster Track 2016, Jaipur and reviewed four research papers on variety of domains.
- ☒ Acted as a reviewer for the “International Conference on Computing and Networks Communication” (CoCoNet’19) (An Elsevier Conference) organized by Indian Institute of Information Technology and Management – Kerala (IIITM – K).
- ☒ Advisory Board Member in International Journal of Multidisciplinary and Current Research (IJMCR) (Website: <http://ijmcr.com/editorial-board/>).
- ☒ Reviewer in International Journal for Innovative Research in Science and Technology. (SR No. 287)
- ☒ Reviewer in International Journal of Engineering Research and Technology. (ID: IJRETREW1967)
- ☒ Reviewer in International Journal of Science & Engineering Development Research (IJSER). (ID: 111388)
- ☒ Reviewer in International Journal of Science Technology and Engineering (IJSTE). (ID:RA1179)
- ☒ Editorial Board Member in International Journal of Scientific & Technology Research (IJSTR). (Website: www.ijstr.org/editorial-board.php)
- ☒ Reviewer in International Journal of Innovative Research in Engineering & Multidisciplinary Present – day Sciences (IJIRMPD) (Website: <http://www.ijirmpd.org/reviewers.php>).
- ☒ Reviewer in International Journal of Creative Research Thoughts (IJCRT). (Reviewer Reference Code: 111828).
- ☒ Reviewer in Indian Journal of Science and Technology.
- ☒ Reviewer in Journal of Communications Technology, Electronics and Computer Science.
- ☒ Reviewer in Science Publishing Group for the Journal “Communications”.

ADVISORY BOARD MEMBERS

- ☒ National Outreach Committee Member in “8th International Conference on Applied Science Engineering and Technology (ICASET 19)” organized by Institute for Engineering Research and Publication at Hotel Accord, Puducherry.
- ☒ National Advisory Committee member in “International Conference on Advances in Science Engineering and Technology (ICASET – 2019)” at KSRM College of Engineering (Autonomous), Kadapa, Andhra Pradesh.
- ☒ Scientific Committee Member in “International Conference on Multidisciplinary Perspectives in Engg. and Technology” (ICMPET – 2019) organized by Institute for Engineering Research and Publication at Ambica Sea Green Hotel, Vishakhapatnam, India.
- ☒ National Outreach Committee Member in “4th International Conference on Communication Systems – 2019” (ICCS – 2019) organized by Birla Institute of Engineering and Technology, Pilani.
- ☒ National Advisory Board Member in “4th International Conference on Applied Science Engineering and Technology” (ICASET) organized by Sengunthar College of Engineering, Thiruchengode.

- ☒ National Advisory Board Member in “International Conference on Recent Trends in Multi – Disciplinary Research” (ICRTMDR) organized by V. O. Chidambaram College, Tuticorin.
- ☒ National Advisory Board Member in “International Conference on Recent Trends in Multi – Disciplinary Research” (ICRTMDR’18) organized by APC Mahalakshmi College for Women, Tuticorin.

RESEARCH PROPOSALS SUBMITTED

- ☒ Guided one student batch for the project idea submission on the title “IoT based water sprinkler based on soil moisture” to DST & Texas Instruments India Innovation Challenge Design Contest 2019 in association with AICTE.
- ☒ Submitted one project proposal titled SMART SENSOR NETWORKING SYSTEM FOR RELIABLE DATA PROCESSING to MHRD, New Delhi.
- ☒ Submitted one research proposal titled DESIGN OF QUADCOPTER FOR THE LOCATION FINDING OF FOES USING GPS to DRDO, New Delhi.
- ☒ Corrected and Re – submitted the proposal titled DESIGN OF QUADCOPTER FOR THE LOCATION FINDING WITH 360° MONITORING to DRDO, New Delhi.
- ☒ Submitted one research proposal titled MODERNIZING DIGITAL SIGNAL PROCESSING LABORATORY to AICTE, New Delhi for the Academic Year 2016 – 17.
- ☒ Submitted one minor proposal for the Two days’ Workshop on “IoT based data logging system” to DST – SERB during the academic year 2018 – 19.
- ☒ Submitted one research proposal titled MODERNIZING DIGITAL SIGNAL PROCESSING LABORATORY FOR EFFECTIVE TEACHING AND RESEARCH to AICTE, New Delhi for the Academic Year 2017 – 18.

ACHIEVEMENT


- ☒ Awarded the “Teacher Innovation Award” by the ZIIEI, Aurobindo Society for proposing the idea for Zero Investment Innovations for Educators Initiatives.
- ☒ Acted as a jury for the regional competition “SPEAK FOR INDIA” organized by “The Times of India” in association with Federal Bank of India at CK College of Engineering and Technology, Cuddalore.
- ☒ An article published in EN VIKATAN titled “CUDDALORIL IRUNTHU ORU KARUNAI KURAL” on 08.07.2012.

Web Link: <http://en.vikatan.com/article.php?aid=22896&sid=622&mid=35#cmt241>

PERSONAL DETAILS

Date of Birth : 1st November, 1987.
Employment Status : Full – time.
Languages Known : English, Tamil and Hindi (Learning).
Address : No. 53, Ganapathy Illam, Vijayalakshmi Nagar Annex, 1st Cross, Koothapakkam, Cuddalore – 607002, Tamil Nadu.

Date :
Place : Cuddalore


(M. SELVAGANAPATHY)