


PERSONAL DETAILS AND AFFILIATION

Name of the Faculty Member	K.SUBRAMANIAN			
Designation	ASSISTANT PROFESSOR (SENIOR GRADE)			
Department	ELECTRONICS AND COMMUNICATION ENGINEERING			
Date of joining the institution	15-05-2009			
Date of Birth	04-12-1983			
Address for Communication	6/1, PASUVANTHANAI MAIN ROAD, BHARATHI NAGAR, KOVILPATTI.			
Mobile Number	9789713993	Official Number	04632-222502	
Email ID	subramanian@nec.edu.in			

EDUCATIONAL QUALIFICATION

S.NO	QUALIFICATION	INSTITUTION STUDIED	UNIVERSITY / BOARD	YEAR OF PASSING
1	SSLC	NADR HIGHER SECONDARY SCHOOL, KOVILPATTI	STATE BOARD	1999
2	HSC	NADR HIGHER SECONDARY SCHOOL, KOVILPATTI	STATE BOARD	2001
3	B.E. (ECE)	HINDUSTHAN COLLEGE OF ENGG. & TECH., COIMBATORE	ANNA UNIVERSITY, CHENNAI	2005
4	M.E.(C&C)	NATIONAL ENGINEERING COLLEGE, KOVILPATTI.	ANNA UNIVERSITY, CHENNAI	2008
5	Ph.D.	NATIONAL ENGINEERING COLLEGE, KOVILPATTI.	ANNA UNIVERSITY, CHENNAI	2024

EXPERIENCE

S.NO.	NAME OF THE INSTITUTION / ORGANIZATION	POSITION HELD	FROM	TO	EXPERIENCE	
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1	NATIONAL ENGINEERING COLLEGE, KOVILPATTI.	Assistant Professor (SG)	07.07.2014	TILL DATE	12	0
2	NATIONAL ENGINEERING COLLEGE, KOVILPATTI.	Assistant Professor	15.05.2009	06.07.2014	5	1
3	NATIONAL ENGINEERING COLLEGE, KOVILPATTI.	Assistant Professor	19.06.2008	30.04.2008	-	10
TOTAL EXPERIENCE					17	11

LIST OF INTERNATIONAL JOURNAL PUBLICATIONS

1	Subramanian, K., & Shanmugavel, S. (2021). A Complete Continuous Target Coverage Model for Emerging Applications of Wireless Sensor Network Using Termite Flies Optimization Algorithm. <i>Wireless Personal Communications</i> , 1-23.
2	Subramanian, K., & Shanmugavel, S. (2023). Intelligent Deployment Model for Target Coverage in Wireless Sensor Network. <i>Intelligent Automation & Soft Computing</i> , 35(1).
3	Tony, A., Kumar, P., & Rohith Jefferson, S. (2021). A study of demand and sales forecasting model using machine learning algorithm. <i>Psychology and Education Journal</i> , 58, 10182-10194.

LIST OF SCOPUS INDEXED CONFERENCE PUBLICATIONS

1	Manasa, M., Malini, S., & Subramanian, K. (2026, January). Design and Implementation of Hybrid Energy Harvesting Circuits for Wearable Devices. In 2026 5th International Conference on Communication, Computing and Electronics Systems (ICCCES) (pp. 32-36). IEEE.
2	Vijayanandh, T., Senthilkumar, N. K., Subramanian, K., & Sekar, G. (2026). Crime Scene Anomaly Prediction Using Generative Adversarial Networks. In <i>Mathematical Methods in Artificial Intelligence</i> (pp. 603-610). De Gruyter.
3	Gajasrija, J. S., & Subramanian, K. (2026, March). An Adaptive Reinforcement Learning-Based Path Planning Model Inspired by Termite Alate Behaviour for Efficient Target Coverage. In <i>2026 International Conference on Machine Learning and Autonomous Systems (ICMLAS)</i> (pp. 363-370). IEEE.
4	Santhiya, S. A., Janavee, N., Yazhini, B., & Subramanian, K. (2025, February). Improved Reinforcement Learning Path Planning Algorithm. In <i>2025 Emerging Technologies for Intelligent Systems (ETIS)</i> (pp. 1-5). IEEE.

LIST OF INTERNATIONAL CONFERENCE PUBLICATIONS

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| 1 | Dr. Subramanian Krishnan & Dr. Vijayanandh Thiagarajan presented a paper on A Heuristic Path Planning Method based on the Reinforcement Learning in the International Conference on Automation and Machine Learning using Robots and Artificial Intelligence Methods (AMLURAIM-2025) at National Institute of Technology, Rourkela. |
| 2 | S.ThangaKumaran, Veerabhagu, Mathan Kumar, Subramanian presented a paper on Choice Based Course Registration and Credit Tracking System in the International Conference on Sustainable Computing & Intelligent Systems (ICSCIS-2025)" at Poornima University, Jaipur, Rajasthan. (Scopus: AIP Proceedings) |
| 3 | Pon Maheswaran, P., Bhabin Jeratso, E., Balamurugan, M., & Subramanian, K. (2025). Robotic Motion Planning: A Comprehensive Comparison of Firefly and Q-learning Algorithms. <i>Sustainable Materials and Technologies in VLSI and Information Processing</i> , 215. (Scopus: CRC Press) |
| 4 | Subramanian, K., & Shanmugavel, S., A Voronoi based dynamic node selection and target tracking in directional sensor networks in an ICSSC 2019 held at Anna University, Chennai on 7th -9th January 2019. |
| 5 | Subramanian, K, A Coverage Optimization in Directional Sensor Networks using Multi Demand target Approach in 4 th Inter National Conference on Applied science engineering and technology organized by Sengunthar College of Engineering on 16 th March & 17 th March 2018. |
| 6 | Subramanian, K & Shanmugavel, S., A Voronoi based Multi-Demands Target Coverage Optimization in Directional Sensor Networks in Ph. D Symposia of second International Conference on ICIIT organized by CEG campus Anna University during December 2017. |
| 7 | Subramanian, K, A Survey on Target Coverage in Wireless Sensor Networks in 2 nd International National Conference on Recent Advances in Engineering Science and Management organized by IETE Chandigarh on 27 th August 2017. |
| 8 | Subramanian K, An Energy efficient coverage detection in clustered Wireless Sensor Networks in DRDO Sponsored 2 nd IEEE International Conference on Innovations in Information, Embedded and Communication Systems organized by Karpagam College of engineering on 19 th & 20 th March 2015. |
| 9 | V.Angalaeswari & K.Subramanian, An efficient approach to improve the lifetime of wireless sensor networks, International Conference on Image processing and networking, PP 284 to 287, Feb 2014, Noorul Islam University – Nagarcoil -ISSN NO.:0973-2993. |

10	Murugalakshmi & K.subramanian, Movement Assisted sensor deployment using multi sink Architecture in sensor networks, international conference on innovation in information Embedded and communication systems, PP 749-753,2014, Karpagam college of engineering-Coimbatore.
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LIST OF NATIONAL CONFERENCE PUBLICATIONS

1	Subramanian, K, An efficient target coverage by adjustable sensing ranges in heterogeneous sensor networks in 3rd National Conference-REACT'17 organized by SRM university on 31st March & 1st April 2017.
2	F.M.S.Nivedita & K.Subramanian, Efficient broadcasting in passive optical networks using interleaved frequency division multiple access with reduced peak to average power ratio, National Conference Vision13, PP 244-to 248,2013,GCE-Tirunelveli.
3	F.M.S.Nivedita & K.Subramanian, Interleaved frequency division Multiple Access signal generation and establishment and comparison of various passive optical networks, National Conference on information and Communication Engineering, March-2013, velammal-madurai.
4	K.Subramanian & P.Sakthivel, Deployment of Mobile Sensors Using Bidding Protocol, Embedded System Conference, PP 7-to 12, 2008, Kalasalingam university-srivilliputhur.

WORKSHOPS/SEMINARS/CONFERENCES/TRAINING PROGRAMMES ORGANIZED

S.NO	NAME OF THE PROGRAMME & VENUE	DATES WITH DURATION	NO. OF PARTICIPANTS	RESPONSIBILITY
1	Three Days Hands on training program on "Network Simulator 2" (NS2) - National Engineering College.	August,2015	30	CO-Coordinator
2	AICTE Sponsored FDP on "FPGA Based for DSP Applications" National Engineering College.	June 2011	30	CO-Coordinator

WORKSHOPS/SEMINARS/CONFERENCES/TRAINING PROGRAMMES ATTENDED

S.NO	NAME OF THE PROGRAMME & VENUE	DATES WITH DURATION	NO. OF PARTICIPANTS	RESPONSIBILITY
1	Faculty Development Program on Applications of Machine Learning Techniques in Healthcare at NMAM institute of technology, Udipi District, Karnataka	08.12.2025 to 13.12.2025	50	-
2	Faculty Development Program on Cognitive Internet of Things at NIT Warangal.	06.01.2025 to 10.01.2025	50	-
3	Faculty Development Program on TensorFlow for Machine Learning organized by ICT Academy.	26.02.2023 to 01.03.2023	ON LINE	
4	Faculty Development Program on Statistics for Machine Learning and Data Science at ABV-IIITM- Gwalior.	21.11.2022 to 26.11.2022	30	-
5	INDUSTRIAL KNOW-HOW :Industry projects on Machine Learning and Deep Learning at Quantanics TechServ Pvt Ltd, Madurai	02/08/2021 to 06/08/2021	3	-
6	Faculty Development Program on Python Programming for Artificial Intelligence Applications, NIT Warangal	20-09-2021 to 24-09-2021	100	-
7	Faculty Development Program on DEEP LEARNING & ITS APPLICATIONS :THEORY TO PRACTICE, SASI INSTITUTE OF TECHNOLOGY & ENGINEERING	06/07/2020 to 10/07/2020	200	
8	INDUSTRIAL KNOW-HOW FUNDAMENTALS OF IOT AND DATA SCIENCE, Entuple Technologies Pvt. Ltd	October 14, 2020 to November 24, 2020	30	
9	Two day faculty development program on AI&MI, at Quantanics TechServ Pvt Ltd, Madurai	19/02/2020 & 20/02/2020	10	

10	Faculty Development Program on IOT , NIT Warangal	18/06/2018 to 22/06/2018	70	
11	INDUSTRIAL KNOW-HOW : Cyber Security, K7 Antivirus, Chennai	21/05/2018 to 13/05/2018	3	
12	One day seminar on "Technology Enhanced Learning" -NPTEL.	March,2015	100	-
13	Two week faculty development program on Fiber Based and Wireless Optical Networks, National Engineering College.	December-2009	30	-
14	Two day Workshop on "Image Processing Application Using DSP Processors", National Engineering College.	September-2009	30	
15	One week faculty development program on "Advances in RF, Wireless Systems and Antennas", National Engineering College.	July, 2009	30	

Honors / Awards/ Appreciation:	
1	Awarded Best Paper in international Conference on Automation and Machine Learning using Robots and Artificial Intelligence Methods (AMLURAIM-2025) at National Institute of Technology, Rourkela.
2	Awarded Best Paper in Embedded Networks in Emcon'08- Kalasalingam University.
3	Best Nodal Officer, National Engineering College for Successfully involving in the Electoral process and for their active participation in the enrolment of New eligible electors, felicitated in the State Level National Voter's Day held at Kalaivanar Arangam, Chennai on 25/01/2024.
4	Best NSS Unit Award at university level, Best Student Volunteer at State level and University level in the year 2022-2023 during my NSS Programme officer period.

Fellowship Programme:

1	Attended Summer Faculty Research Fellow Programme (SFRF'2016) at IIT Delhi for doing research under the Faculty Mentor Dr. Seshan Srirangarajan from 18 th May - 30 th June 2016.
2	Attended Summer Faculty Research Fellow Programme (SFRF'2016) at IIT Delhi for doing research under the Faculty Mentor Dr. Seshan Srirangarajan from 14 th May - 30 th June 2024.

Social Responsibility:

1	Attended "Capacity building for Academic Institutions on the preparation of GPDP" organized by State Institute of Rural Development and Panchayat Raj (SIRD &PR), Chennai from 21/10/2024 and 22/10/2024.
2	Attended "Two days Stakeholder Consultative workshop on handholding support to Village Panchayats on preparation and Implementation of village Panchayat development plan" organized by State Institute of Rural Development and Panchayat Raj (SIRD &PR), Chennai from 25/11/2023 and 26/11/2023.
3	Attended "Workshop on localization of sustainable development goals and panchayat development index" organized by Gandhigram Rural Institute in Collaboration with SIRD &PR from 04/12/2023 and 05/12/2023.
4	Attended "Workshop on Strategies to work with rural communities through participatory approach" organized by Sarada Krishna Homoeopathic Medical College, Kulasekharam from 20/11/2023 and 21/11/2023.

SIGNATURE

(K.SUBRAMANIAN)