


FACULTY INFORMATION

PERSONAL INFORMATION

Name	Dr. Thangadurai N	
Designation	Professor and Research Coordinator	
Official Email ID	n.thangadurai@jainuniversity.ac.in	
Academic Experience	16 years	
Industry Experience	NIL	
Core Discipline	Electronics and Communication Engineering	
Specialization	Wireless Sensor Networks and Navigation systems	
Research Interest	Wireless Sensor Networks and Navigation Systems	

PROFESSIONAL QUALIFICATION

Qualification / Discipline (Start with UG degree)	Year of Passing	Institution
Ph.D. (Electronics)	2014	Department of ECE, Research and Development Centre, Bharathiar University
MBA (Marketing)	2006	Directorate of Distance Education, Alagappa University
ME (Applied Electronics)	2005	Mohamed Sathak Engineering College, Kilakarai
BE (ECE)	2002	Coimbatore Institute of Technology, Coimbatore

MEMBERSHIP OF PROFESSIONAL BODIES

Professional Society	From Year	Nature of Membership
OSI	2019	Lifetime Membership
IEEE	2018	Senior Member
ISCA	2010	Lifetime Membership
IETE	2008	Lifetime Membership
IAENG	2008	Lifetime Membership
IACSIT	2008	Lifetime Membership
ISTE	2007	Lifetime Membership

SUMMARY OF RESEARCH PUBLICATIONS

INTERNATIONAL JOURNALS

Journal Name	Date, Volume & Issue No (From the Latest)	Paper Title
International Journal of Management	11 (2), pp 170 – 174, 2020	FDI issues, challenges, recent trends and electronic sector growth in India.
Lecture Notes in Electrical Engineering	2020	Future of smart vehicle communication by using Li - Fi Technology.
Advances in Intelligent Systems and Computing	2020	Study and analysis of IRNSS / NAVIC signals for atmospheric effects near bangalore region.
International Journal of Scientific & Technology Research	Vol 9, ISS:1, 2020	Detection of disease in sugarcane leaf using IoT.
International Journal of Computer Aided Engineering and Technology	2021	Moems based accelerometer sensor using photonic crystal for vibration monitoring in automotive systems.
International Journal of Advanced Trends in Computer Science and Engineering	Vol 8, ISS:6, pp 3628 - 3631, 2019	Fertilizer optimization by an smart soil analyzer with a soil tester for agriculture applications.
Universal Journal of Electrical and Electronics Engineering	Vol 6, ISS:5, pp 373 - 382, 2019	Study of azimuth angle and elevation angle variations of IRNSS / NAVIC signals.
International Journal of Innovative Research in Advanced Engineering	Vol 9, ISS:6, pp 592 – 600, 2019	Remote sensing and geographic information systems for engineering applications.
International Journal of Advanced Computer Science and Applications	Vol 10, No. 9, pp 293 - 299, 2019	Wireless multimedia sensor networks based quality of service sentient routing protocols - A survey.
International Journal of Advanced Computer Science and Applications	Vol 10, No. 9, pp.300 - 309, 2019	Embedded system interfacing with GNSS user receiver for transport applications.
International Journal of Engineering and Advanced Technology	Vol 8, ISS:6, pp 69 - 74, 2019	Intrusion detection algorithm for packet loss minimization in wireless sensor networks.
International Journal of Innovative Technology and Exploring Engineering	Vol 8, ISS:10, pp 2375 – 2377, 2019	An efficient technique to remove gaussian noise and improve the quality of magnetic resonance image.
Current Science	Vol 116, No. 10, pp 1715 – 1720, 2019	Development of 90 GHz microwave radiometer sensor in snow / ice studies over the himalaya as input for disaster monitoring.

International Journal of Recent Technology and Engineering	Vol 8, ISS:2, pp 488 – 491, 2019	Recent trends in wheelchair to assist the physically challenged.
International Journal of Recent Technology and Engineering	Vol 8, ISS:2, pp 2253 – 2257, 2019	Design of non - volatile phase change memory for FPGA architectures.
International Journal of Recent Technology and Engineering	Vol 8, ISS:2, pp 503 – 507, 2019	Acquisition and tracking of S - Band signals of navigation with indian constellation.
SN Applied Sciences	Vol 1, ISS:8, Article 828, pp 1 - 7, 2019	Low power device design application by magnetic tunnel junctions in magnetoresistive random access memory.
International Journal of Innovative Technology and Exploring Engineering	Vol 8, ISS:9, pp 412 - 416, 2019	Performance analysis of cascode and inductive regenerative low noise amplifier for wireless applications.
International Journal of Engineering and Advanced Technology	Vol 8, ISS:5, pp 2731 - 2735, 2019	Utilization of IoT and AI for agriculture applications.
International Journal of Engineering and Advanced Technology	Vol 8, ISS:5, pp 979 - 982, 2019	Magnetic tunnel junctions design in magnetoresistive random access memory (MRMA + FPGA) architecture.
International Journal of Innovative Technology and Exploring Engineering	Vol 8, ISS:8, pp 2628 – 2637, 2019	Application specific embedded board development interfaced with GPS / IRNSS receiver for environmental monitoring.
International Journal of Innovative Technology and Exploring Engineering	Vol.8, ISS:8, pp. 2272 – 2279, 2019	Fuzzy logic based routing algorithm for wireless sensor networks to enhance the network lifetime.
International Journal of Recent Technology and Engineering	Vol 8, ISS:1, pp 1565 - 1569, 2019	Moems based micro accelerometers sensor sensing structures/
International Review of Mechanical Engineering	Vol 12, No. 11, pp 892 – 901, 2018	Energy conservation approach and control strategy for open loop, closed loop hydraulic circuit in CNC machines.
International Journal of Mechanical Engineering and Technology	Vol 9, ISS:10, pp 1304 - 1313, 2018	Design optimization of nano cavity based photonic accelerometer sensor for vehicle system.
International Journal of Engineering Research and Technology	Vol 11, No. 7, pp 1119 - 1128, 2018	Optimization of simulation based system level modeling to enhance embedded systems performance.
International Journal of Engineering and Technology	Vol 7, Special ISS:3.12, pp 938 - 944, 2018	Composition of wireless sensor module for vanet applications.
Journal of Engineering and Applied Science	Vol 13, ISS:13, pp 5027 - 5036, 2018	Hardware implementation and testing of papr reduction using order bit selector and trellis structure.
International Journal of Engineering and Technology	Vol 7, Special ISS:3.12, pp 28 - 32, 2018	Laser based real time antenna pointing measurement system.
International Journal of Engineering and Technology	Vol 7, Special ISS:3.12, pp 512 - 515, 2018	Design & analysis of S - Band right hand circularly polarized conical horn antenna for navic receiver.
Journal of Advanced Research in Dynamical and Control Systems	Vol 10, Special ISS:9, pp 1244 – 1251, 2018	Performance analysis of error correction techniques for high definition video streaming in wireless communication.
Journal of Advanced Research in Dynamical and Control Systems	Vol 10, Special ISS:4, pp 1252 - 1258, 2018	A study of semi - conductor memory technology by comparing volatile and non-volatile memories.
Journal of Advanced Research in Dynamical and Control Systems	Vol 10, Special ISS:9, pp 111 - 122, 2018	vocal tract shape synthesis for various indian speaker under various conditions
Journal of Advanced Research in Dynamical and Control Systems	Vol 10, Special ISS:9, pp.123 - 131, 2018	Analysis and modelling of vocal tract shape variability for emotional speech in south indian native language.
International Journal of Emerging Technologies in Engineering Research	Vol 6, ISS:2, pp 10 - 14, 2018	Performance comparison and FPGA synthesis of mnmsncma adaptive beamforming algorithm.
Journal of Engineering and Applied Sciences	Vol 12, ISS:23, pp 7351 - 7357, 2017	Assessment of psychophysical variations in human beings with the aid of audiometry and gap detection tests.
World Journal of Engineering Research and Technology	Vol 4, ISS:1, pp 221 - 229, 2017	RF controlled metal and deleterious gas detecting rover.
International Journal of Advanced Research in Electronics and Communication Engineering	Vol 6, ISS:10, pp. 1021 – 1025, 2017	A review on recent trends in software defined radio design and applications.
International Journal of Applied Engineering Research	Vol 12, No.16, pp 5594 - 5603, 2017	VLSI implementation of integrating the discrete cosine and wavelet transform with pts for papr reduction.
International Journal of Earth Sciences and Engineering	Vol 10, No. 4, pp 868 - 872, 2017	Data analysis for ionospheric divergence and glittering by using navic receiver.
International Journal of Electronics, Electrical and Computational System	Vol 6, ISS:7, pp 208 - 210, 2017	Metal dielectric plasmo – optical data storage.

International Journal of Latest Engineering and Management Research	Vol 2, ISS:7, pp 57 - 66, 2017	Heptagonal shaped slotted broad band patch antenna for wireless applications.
International Journal of Engineering Sciences & Research Technology	Vol 6, ISS: 7, pp 46 - 53, 2017	Ultra wideband slotted modified H - shaped microstrip patch antenna for wireless applications.
International Journal of Engineering Development and Research	Vol 5, ISS:3, pp 171- 178, 2017	A novel S shaped wide band patch antenna with split ground for digital multimedia broadcasting and LTE.
Journal of Environmental Engineering and Studies	Vol 2, ISS:2, pp 1 - 8, 2017	A review on environmental sensors used for landslide prediction and detection.
Journal of Embedded Systems and Processing	Vol 2, ISS:2, pp 1 - 7, 2017	Integrated forest fire and wildlife monitoring system using wireless sensor network.
International Journal of Control Theory and Applications	Vol 10, ISS:30, pp 309 - 325, 2017	Fragmentary chronological transmission with order bit selector for papr reduction of ofdm signals.
International Journal of Advanced Information Science and Technology	Vol 6, No. 4, pp 1 - 6, 2017	Slotted and miniaturized patch antenna for WLAN and wimax applications.
Current Science	Vol 112, ISS:8, pp 1738 - 1742, 2017	Positioning and signal strength analysis of IRNSS and GPS receiver in plain and vegetation area.
Indian Journal of Science and Technology	Vol 10, ISS:1, pp 1 - 6, 2017	Modified papr reduction by integrating DCT & IWPT with partial transmit sequence.
International Journal of Civil Engineering and Technology	Vol 7, ISS:6, pp 378 – 385, 2016	Effective approach for landslide monitoring using wireless sensor networks.
International Journal of Applied Engineering Research	Vol 11, ISS:7, pp 5352 - 5356, 2016	Low noise amplifier selection for indian regional navigation satellite system.
International Journal of Applied Engineering Research	Vol 11, ISS:1, pp 606 - 610, 2016	Classic electronics student attendance register cesar.

SUMMARY OF CONFERENCES PARTICIPATED

INTERNATIONAL CONFERENCES

Name of the Conference	Organizer, Place	Year
International Conference on Sustainable Computing in Science, Technology & Management	Jaipur	2020
2 nd International Conference on Soft Computing and Signal Processing	Hyderabad	2019
International Conference on Frontiers in Materials from Basic Science to Real - Time Applications	Bangalore	2019
International Conference on Sustainable Computing in Science, Technology & Management	Jaipur	2019
Springer - International Conference on Photonics, Communication and Signal Processing Technologies	Bangalore	2018
5 th International Conference on Computing for Sustainable Global Development	New Delhi	2018
3 rd International Conference on Recent Trends in Computer Science and Electronics (RTCSE)	Thailand	2018
7 th International Conference on Engineering Technology, Science and Management Innovation	New Delhi	2017
IEEE International Symposium on Antennas and Prorogation (URSI - Conference)	Tirupathi	2017
4 th IEEE International Conference on Electronics and Communication Systems	Coimbatore	2017
International Conference on Recent Trends in Mechatronics, Electronics & Cloud computing	Bangalore	2016
International Conference on Advances in Nanomaterials and Nanotechnology	New Delhi	2016
IEEE International Conference on Advanced Communication Control and Computing Technologies (ICACCCT)	Ramanathapuram	2016
IEEE online International Conference on Green Engineering and Technologies	Coimbatore	2015

NATIONAL CONFERENCES

Name of the Conference	Organizer, Place	Year
National Conference on Automation, Control and Communication	Bangalore	2019
National Conferences on Recent Advances in Communication, Electronics and Electrical Engineering	Bangalore	2018

National Conferences on Recent Advances in Communication, Electronics and Electrical Engineering	Bangalore	2017
National Conference on Recent Trends in Electrical, Electronics, Computing and Information Technology	Bangalore	2016
National Conference on Recent Trends in Electronics and Communication Engineering	Bangalore	2016
National Conference on Emerging Trends in Electronics & Communication Engineering	Bangalore	2016

AWARDS / HONORS / ACHIEVEMENTS

Nature	Year	Awarding Institution
Best Young Scientist Award (Below 45 years)	2018	REAA
Best Performer Award	2017	Jain (Deemed-to-be University)
Bharath Excellence Award	2017	Sikkim
Award for Research Publications (ARP)	2016 - 2017	VGST, Government of Karnataka
Outstanding Researcher Award	2016	Top Engineers, Pondicherry
Teaching Awards in Engineering	2015	Staffordshire University, UK & Education Matters
Indira Gandhi Sadbhavna Gold Medal	2014	GEBRA
Kamaraj Memorial Gold Medal	1998	Kamaraj Education Trust

PATENTS

Name of the Patent	Year	Description
Keyhole Slot Loaded and Plus Shaped Microstrip Patch Antenna for Ultra - Wideband Applications	2019	Australian Patent Granted 2019101175
Advanced Embedded Board Package Design with Appropriate Provision for Different Interfaces	2019	Design Patent 320895 - 001
Keyhole Slot Loaded and Plus Shaped Microstrip Patch Antenna for Ultra - Wideband Applications	2018	Indian Patent Published 201841000511
High Definition Video Streaming for Wireless Communication	2018	Indian Patent Published 201841001398
Exemplary System for Steam Pressing Iron - Box by Using Surplus Thermal Energy	2018	Indian Patent Published 201841005696
Shariraraksa - Miniaturized Rechargeable Taser for Personal Defense Using a Mosfet	2018	Indian Patent Published 201841021922
A Method and Apparatus for Secure Privacy Preserving Data Sharing Between Any Two Entities Using Trustable Policy Based Anonymization Framework	2018	Indian Patent Published 201841023735
Ultrasensitive Array of Accelerometer Sensor Based on Optical Nano - Cavity for Automotive Application	2018	Indian Patent Published 201841038029
A Method and Apparatus for Rating and Recommendation of Entities or Services by Correlating the Variables of Requested Quality with the Indicated Quality	2018	Indian Patent Published 201841039767
A Method and Apparatus for Context Switching of Quality of Service - Based Profiles in a Service System	2018	Indian Patent Published 201841042957
Hybrid Power Generation System by Using Wind, Solar and Hybrid Energy Models	2018	Indian Patent Published 201841044832
Reversible Logic Design for Digital Circuit	2017	Indian Patent Published 201741029423
Distillation of Saline Water Using Ultrasonic Energy Catalysed By Low Temperature Heater with Rapid Evaporation Of Water	2017	Indian Patent Published 201741035912

BOOKS PUBLISHED / MONOGRAMS

Name	Year	Description
Advanced Processors and Real Time Operating Systems	2020	Harshwardhan Publication Pvt. Ltd., 1 st Edition, pp 210, January 2020, ISBN:978 - 93 - 89003 - 84 - 0
Digital Communication Fundamentals	2019	Harshwardhan Publication Pvt. Ltd., 1 st Edition, pp 240, December 2019, ISBN 978 - 93 - 89003 - 66 - 6
Overview of Indian Regional Navigational Satellite Systems	2019	Sara Book Publication, 1 st Edition, pp 136, September 2019, ISBN:978 - 93 - 88672 - 32 - 0
Advance Embedded System Concepts	2019	Harshwardhan Publication Pvt.Ltd., 1 st Edition, pp 235, February 2019, ISBN:978 - 93 - 87990 - 72 - 2
Handbook on Fundamentals of Electromagnetic Theory	2018	GRIN Publishing, Munich, Germany 1 st Edition, pp 142, May 2018, ISBN:978 - 366 - 8 - 71130 - 3
Intellectual Property Rights: Concepts, Practice and Case Studies (Engineering Approach)	2018	Lap Lambert Academic Publishing, 1 st Edition, pp 365, May 2018, ISBN:978 - 613 - 9 - 82205 - 8

Standardization of Infant / Toddler Sensory Profile in Regional Language	2018	Lap Lambert Academic Publishing, 1 st Edition, pp 100, December 2018, ISBN:978 - 613 - 9 - 98375 - 9
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PAST POSITIONS HELD BEFORE PRESENT ASSIGNMENT		
Designation	From - To	Institution / Organization
Associate Professor & Head of the Department	January 2015 - August 2015	PGP College of Engineering and Technology, Namakkal
Associate Professor	December 2013 - December 2014	Institute of Aeronautical Engineering, Hyderabad
Assistant Professor (Senior Grade)	February 2006 - November 2013	SRM University
Lecturer	February 2005 - January 2006	Madha Engineering College, Chennai

POSITIONS HELD IN THE PRESENT ORGANIZATION		
Designation	From - To	Institution / Organization
Professor & Research Coordinator	September 2019 - Till Date	Jain (Deemed-to-be University), Faculty of Engineering and Technology
Assistant Professor - 3	September 2015 - June 2016	Jain (Deemed-to-be University), Faculty of Engineering and Technology
Associate Professor & HoD, Research Coordinator	July 2016 - August 2019	Jain (Deemed-to-be University), Faculty of Engineering and Technology

RESEARCH GUIDANCE		
Total No. of Students Guided	Ph.D.	M.Phil
3	3	NIL

RESEARCH PROJECTS		
Name of the Project	Type of the Project (Sponsored / Consultancy / Government Funded)	Status of the Project (Ongoing / Completed)
Real Time / Near Real Time Display and Mapping of Navic Generated Data From a Rover	ISRO	Completed
Signal Processing and Communication in Satellite and Space Technology	ISRO	Completed
Technology Business Incubator	MSME	Completed