




# TAGORE ENGINEERING COLLEGE

(A Member of Tagore Group of Institutions Chennai)

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai

ACCREDITED BY IQAC-NAAC WITH 'A' GRADE

## FACULTY PROFILE

PERSONAL DETAILS			
Name & Qualification	Dr. R. PORSELVI M.E Ph.D		
Designation	Senior Assistant Professor		
Department	Electronics and Communication Engineering		
Total Teaching Experience	13 Years 10 Months		
Total Research Experience	8		
Total Industry Experience	3 Years		
Area of Specialization	Wireless Communication, VLSI Design		
AICTE Faculty ID	1-492864285		
Email ID	rporselvi@tagore-engg.ac.in		
EDUCATIONAL DETAILS			
Degree	Branch/ Specialization	University	Year
UG	B.E – ECE	University of Madras	2002
PG	M.E- VLSI Design	Anna University	2008
Ph.D	Wireless Communication	Anna University	2021
RESEARCH / PUBLICATION DETAILS			
Publications in Journal			
<p>1. <b>Porselvi, R&amp;Murugan, M</b>, ‘An efficient pilot-symbol-aided and decision-directed hybrid channel estimation technique in OFDM systems’, Published in a Journal of National Telecommunication Systems (Modeling, Analysis, Design and Management) © Springer 2019, ISSN 1018-4864 vol. 73, no. 4, Telecommunication System (2020), DOI: <a href="https://doi.org/10.1007/s11235-019-00620-5">https://doi.org/10.1007/s11235-019-00620-5</a>, pp. 531-544.</p> <p>2. <b>Porselvi, R&amp;Murugan, M Meena sri P.S, Pradeepa.V</b>, Channel Parameters Analysis using Cognitive Radio-Wireless Sensor Network (CR-WSN) for Wireless Communication, 2019, Published in a i-manager’s Journal on Wireless Communication Networks, Vol. 8, No.2, July-</p>			

September 2019.

3. Nathinipriyanka.R, **Porselvi.R**, Murugan.M, “Performance Analysis of Channel Estimation using Training Sequences”, published in an International Journal of Applied Engineering Research, Volume 10, Number 9, pp.8542-8547, ISSN:0973-4562 (2015).
4. **Porselvi.R**, Murugan.M, “Different Channel Estimation Techniques for Orthogonal Frequency Division Multiplexing (OFDM) Systems”, published in an International Journal of Applied Engineering Research, Volume 10, Number 42, pp.30734-30739, ISSN:0973-4562 (2015).
5. **Porselvi.R**, Murugan.M “International Journal of Scientific & Engineering Research, “Area Efficient Network - on-Chip Router In Packet Switching”, Volume 5, Issue 4, ISSN 2229 – 5518 (April 2014).

#### Conference Proceedings

1. Suresh, T&**Porselvi.R**, “Improved the Security of Mutual Authentication Protocol in RFID system using NFSR”, Proc. International Conference on Research Innovation in Science, Engineering and Technology (ICRISET 2022)”at Kings Engineering College, Chennai, on 1<sup>st</sup> & 2<sup>nd</sup> March 2022.
2. **Porselvi.R**, Vishali Priyanka. C, “Electronic Toll Collection (ETC) of Deducting money in Toll plaza with RFID Technology”, Proc. AICTE Sponsored International E-Conference on Electrical Communication and Computing (ICECC)”at Tagore Engineering College, Chennai, on 20<sup>th</sup> & 21<sup>st</sup> August 2020.
3. **Porselvi.R**, Murugan.M, “Hybrid Pilot Assisted and Decision-Directed Channel Estimation (PSADDCE) Techniques for OFDM Systems”, Proc. International Conference on Electrical Communication and Computing (ICECC) at Tagore Engineering College, Chennai, on 12<sup>th</sup> & 13<sup>th</sup> March 2019.
4. JeenathBegum.M, Ishwaraya.P, Barkavi.T, **Porselvi.R**, “IIOT Control System based on SCAD”, Proc. International Conference on Electrical Communication and Computing (ICECC) at Tagore Engineering College, Chennai, on 12<sup>th</sup> & 13<sup>th</sup> March 2019.
5. Preethi.A, Rajathakshini.C, Vaishnavi.H, **Porselvi.R**, “Bayesian-Based Trust Management for Insider Attacks in Military force”, Proc. International Conference on Electrical Communication and Computing (ICECC) at Tagore Engineering College, Chennai, on 12<sup>th</sup> & 13<sup>th</sup> March 2019.
6. **Porselvi.R**, Murugan.M, “Performance analysis of Channel parameters using CR-WSN in Wireless Communication” National Conference on Recent Advances in Science, Engineering and Management - NCRASEM, in Tagore Engineering College on 28<sup>th</sup> March 2018.

7. V.Nadhiya, **R.Porselvi**, “An Approach for Protecting against Communitarian Assaults by Malvolent Hubs in Manets”, National Conference on Recent Advances in Science, Engineering and Management - NCRASEM, in Tagore Engineering College on 28<sup>th</sup> March 2018.
8. G.Priyanka, S.Rohini, V.Sandhiya, **R.Porselvi**, “Highly Secured Data Transmission Using Cryptography”, National Conference on Recent Advances in Science, Engineering and Management - NCRASEM, in Tagore Engineering College on 28<sup>th</sup> March 2018.
9. M.Barani, S.Sangeetha, J.Sathya, **R.Porselvi**, “Fleet Pathway Tracking and Management System Using IOT”, National Conference on Recent Advances in Science, Engineering and Management - NCRASEM, in Tagore Engineering College on 28<sup>th</sup> March 2018.
10. **Porselvi.R**, Murugan.M, Nathinipriyanka.R, “Parameter Analysis of Channel Estimation using Training Sequences” Proc. IEEE Sponsored 2nd International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS’15), at Karpagam College of Engineering, Coimbatore, Tamil Nadu, 19<sup>th</sup> – 20<sup>th</sup> March 2015.
11. **Porselvi.R**, Niraimathi.R “Performance Comparison of Different Channel Estimation Techniques for Orthogonal Frequency Division Multiplexing (OFDM) Systems”, Proc. International Conference on Electrical Communication and Computing (ICECC) at Tagore Engineering College, Chennai, on 13<sup>th</sup> & 14<sup>th</sup> March 2014.
12. **Porselvi.R**, Kavitha.R and Jayashri “Area Efficient Network-on-Chip Router In Packet switching”, Proc. International Conference on Electrical Communication and Computing (ICECC) on 13<sup>th</sup> & 14<sup>th</sup> March 2014 at Tagore Engineering College, Chennai.
13. Surekha.N, **Porselvi.R** and Kumuthapriya K, “An Efficient High Speed Wallace Tree Multiplier”, Proc. International Conference on Information Communication & Embedded Systems (ICICES’13) organized by the Department of PG Students in Engineering at S.A. Engineering College, Chennai, pp.84, ISBN:978-93-82880-03-5, 2013.
14. Banupriya.R, Hemalatha.S and **Porselvi.R**, “High performance fault detection scheme for AES using composite field”, Proc. National Conference on Computer and Communication Technologies (NCCCT) organized by DMI College of Engineering, Chennai, 5th April 2013.
15. Priya.R, **Porselvi.R** and Kumuthapriya K, “Long-Distance Real-Time Echo Cancellation and Double Speech Detection”, Proc. International Conference on Electronics & Communication Engineering (ICECE-2012) organized by Sri Lakshmiammal Engineering College, Chennai, 6-7 April 2012.
16. Aarthi.S**Porselvi.R**, kiruba.L, “Power Optimization in Iterative and Pipelined CORDIC

Architecture”, Proc. International Conference on Electronics and Communication Engineering (ICECE-2012) organized by Sri Lakshmiammal Engineering College, Chennai, 6-7 April 2012.

17. Aarthi.S, **Porselvi.R**, kiruba.L “Comparison of power in Iterative and Pipelined CORDIC Architectures”, Proc. National Conference on Networking communication systems and signal processing (NCSSP’12) at KarpagaVinayaga College of Engineering and Technology, Madhurantakam, on 6<sup>th</sup> March 2012.
18. Kumuthapriya.K, **Porselvi.R** and Priya.R, “Advanced Cryptography using Coupled Congruential Pseudorandom Generators”, Proc. National Conference on Networking communication systems and signal processing (NCSSP’12), at KarpagaVinayaga College of Engineering and Technology, Madhurantakam, on 6<sup>th</sup> March 2012.
19. Kumuthapriya.K and **Porselvi.R**, “Advanced Cryptography using coupled congruential pseudorandom Generators”, Proc. National MultiConference on Innovative Computing Technology (NMICT’2011) at Tagore Engineering College, Rathinamangalam, Chennai, pp.296-299 on 18<sup>th</sup> April 2011.
20. Srivatsan.S, Karthick.A and **Porselvi.R**, “Implementation of Multiplexer based parallel Vedic multiplier in FPGA”, Proc. National Conference on Microelectronics and Communication (NCMECT), at SRM University, SRM Nagar, Kattankulathur, Chennai, 8<sup>th</sup> & 9<sup>th</sup> April 2009.
21. **Porselvi.R** and Jessitha, “An efficient BIST Architecture for Highspeed Memory Testing”, Proc. National Conference on Wireless Technologies (NCWT-2008), at Adhiparasakthi Engineering College, Melmaruvathur, on 6<sup>th</sup> & 7<sup>th</sup> Feb 2008.
22. **Porselvi.R** “An efficient BIST Architecture for High-Speed Memory Testing”, National Conference on Multimedia Signal Processing and Broadband Technologies (NCSBT-2008) at B.S.A. Crescent Engineering College, Chennai, 9<sup>th</sup> & 10<sup>th</sup> Jan 2008.

#### **Books / Chapters Published**

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#### **Fund Received**

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#### **Patent Applied / Published/Granted**

1. Dr.R.Porselvi has filed a patent on“Monitoring of Body Temperature with alert through IOT without contactto Human Body during COVID situations” and published on 25.02.2022		
2. 2.Dr. R. Porselvihas filed a patent “Prioritygenerator and the method there of by implementing Artificial Intelligence fordiagnosing patients in hospitals” and published on 25.03.2022		
CITATIONS	36	
H-INDEX	1	
RESEARCH GUIDANCE DETAILS		
Sl.No	University	Supervisor ID / Reference
1	Anna University, Chennai	-
2	Number of UG Scholars Guided	36 Batches / 4127114
3	Number of PGScholars Guided	12 / 4127114
4	Number of Ph.D. Scholars Guided	-
5	Number of Ph.D. Scholars Pursuing	-
PROFESSIONAL SOCIETY MEMBERSHIP DETAILS		
Sl.No	Professional Society Name	Member ID
1.	ISTE	LM 112481
2.	IETE	AM-216384
3.	IAENG	151888