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### Publications Details

- S. Hannah Pauline, Dhanalakshmi Samiappan, R.Kumar, Ankita Anand, Asutosh Kar, "Variable tap-length non-parametric variable step-size NLMS adaptive filtering algorithm for acoustic echo cancellation", Vol. 159, Feb 2020, <https://doi.org/10.1016/j.apacoust.2019.107074> (SCI , IF: 2.297)
- V Chakravartula, Dhanalakshmi Samiappan, R Kumar , "Sensitivity enhancement analysis due to different coating materials of Fibre Bragg Grating-based depth sensor for underwater applications", Optical and Quantum Electronics, Springer, 52 (1), 27, 2020 (SCI , IF: 1.547)
- S. Latha, Dhanalakshmi Samiappan, R Kumar, "Carotid artery ultrasound image analysis: a review of the literature", Journal of Engineering in medicine , 2020 (SCI , IF: 1.317)
- Venkatesh, Dhanalakshmi Samiappan, " Bio-inspired Cooperative Diversity Link in Underwater Optical Wireless Communication", Optics and Laser Technology, Volume 116, August 2019, Pages 180-188 (SCI, IF: 3.319)
- Uma Kumari, C.R, Dhanalakshmi Samiappan, Kumar, R., Sudhakar, T. "Development of a highly accurate and fast responsive salinity sensor based on Nuttall apodized Fiber Bragg Grating coated with hygroscopic polymer for ocean observation", Optical Fiber Technology, Vol. 53, art. no. 102036, 2019. (SCI, IF: 1.824)
- Dhanalakshmi Samiappan, S. Latha, "Enhancing ML Aptitude using Significant Cluster Identification for Augmented Image Refining", International Journal of Pattern Recognition and Artificial Intelligence", World Scientific, <https://doi.org/10.1142/S021800142051009X> (SCI, IF: 1.110)
- Mugdha Bakhale, V. Hemalatha, Dhanalakshmi Samiappan, R. Kumar, M. Siddharth Jain, "A Dynamic Inertial Weight Strategy in Micro PSO for Swarm Robots", An International Journal Wireless Personal Communications, September 2019. <https://doi.org/10.1007/s11277-019-06743-x> (SCI, IF: 0.951)
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- Dhanalakshmi Samiappan, Kesari Kiran et.al, "Enhancing Sensitivity of Fiber Bragg Grating-based Temperature Sensors through Teflon Coating" An International Journal Wireless Personal Communications, September 2019. <https://doi.org/10.1007/s11277-019-06744-w> (SCI, IF: 0.951)
- Ajisha, Dhanalakshmi Samiappan, "Underwater Image Restoration based on Diffraction Bounded Optimization Algorithm with Dark Channel Prior",Optik-International Journal for Light and Electron Optics, Elsevier, Volume 192, September 2019, Article number 162925 (SCI, IF: 1.914)
- S.Latha, Dhanalakshmi Samiappan, "Despeckling of Carotid Artery Ultrasound Images with a Calculus Approach", Current Medical Imaging Reviews, Volume 15, Issue 4, March 2019, Pages 414-426 (SCI, IF 0.533)
- Harisudha Kuresan, Dhanalakshmi Sammiappan, Sam Masunda, "Fusion of WPT and MFCC feature extraction in Parkinson Disease diagnosis", Technology and Health Care, Volume 27, Issue 4, March 2019, Pages 363-372. (SCIE, IF 0.787)

- Uma Kumari.C.R, Dhanalakshmi Samiappan, Kumar.R, Tata Sudhakar, "Fiber optic sensors in ocean observation: A comprehensive review", Optik-International Journal for Light and Electron Optics, Elsevier, vol. 179, pp.551–560, February 2019. doi:10.1016/j.ijleo.2018.10.186. (SCI-IF: 1.191)
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- V. Hemalatha, R. Prabakaran, Dhanalakshmi. Samiappan & A. Jaba Deva Krupa, "Time Triggered Hybrid Scheduler with Dynamic Frequency Scaling for Distributed Real Time Embedded Systems", An International Journal Wireless Personal Communications, DOI 10.1007/s11277-017-4620-6. ( SCI Indexed, Scopus Indexed, IF 0.951 , SNIP- 0.726)
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### **Patents**

- Patent Published dated 08/03/2019 for "A system and method for fabrication of polymer coated salinity sensor" - Application No.201841049159 A
- Filed patent for "A system and Method for Coordinative Swarm Printing"- Application No. 201741045010 dated 14.12.2017.
- Filed patent for "A system and method for remote surveillance" - Application No. 201841043574 dated 20.11.2018.