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### **Publications (International Journals):**

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- 4) Chatterjee, A., Nair, J.R., Ghoshal, T., Latha, S., Samiappan, D., Diagnosis of atherosclerotic plaques in carotid artery using transfer learning(2020) Proceedings of the 5th International Conference on Communication and Electronics Systems, ICCES 2020, art. no. 09138052, pp. 1247-1251.
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- 7) Biswal, A., Kumar, R., Nayak, C., Samiappan, D., Photonic transmission spectra in an extrinsic semiconductor based Gaussian random multilayer(2020) Optical Materials, 102, art. no. 109799, . Cited 1 time.
- 8) Pauline, S.H., Samiappan, D., Kumar, R., Anand, A., Kar, A., Variable tap-length non-parametric variable step-size NLMS adaptive filtering algorithm for acoustic echo cancellation(2020) Applied Acoustics, 159, art. no. 107074, . Cited 4 times.
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- 10) Chakravartula, V., Samiappan, D., Kumar, R., Sensitivity enhancement analysis due to different coating materials of Fibre Bragg Grating-based depth sensor for underwater applications (2020) Optical and Quantum Electronics, 52 (1), art. no. 27, .
- 11) Bakhale, M., Hemalatha, V., Dhanalakshmi, S., Kumar, R., Siddharth Jain, M. A Dynamic Inertial Weight Strategy in Micro PSO for Swarm Robots (2020) Wireless Personal Communications, 110 (2), pp. 573-592. Cited 1 time.
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- 13) Samiappan, D., Kesarikiran, A.V.S., Chakravartula, V., Kumari, C.R.U., Shubham, K., Aakash, B., Kumar, R. Enhancing Sensitivity of Fiber Bragg Grating-Based Temperature Sensors through Teflon Coating (2020) Wireless Personal Communications, 110 (2), pp. 593-604.
- 14) Uma Kumari, C.R., Samiappan, D., Kumar, R., Sudhakar, T., Development of a highly accurate and fast responsive salinity sensor based on Nuttallapodized Fiber Bragg Grating coated with hygroscopic polymer for ocean observation (2019) Optical Fiber Technology, 53, art. no. 102036, . Cited 1 time.
- 15) Karpe, K., Chatterjee, A., Srinivas, P., Samiappan, D., Ramamoorthy, K., Sabattini, L. SPRINTER: A discrete locomotion robot for precision swarm printing (2019) 2019 19th International Conference on Advanced Robotics, ICAR 2019, art. no. 8981621, pp. 733-738.
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- 21) Venkatesh, A., Janani, M.V., Hari, A.M., Kumar, R., Samiappan, D., Chakravartula, V., Laskar, J.M. Saturable Absorbers for Mode-Locking of Lasers Operating at Ultraviolet Wavelengths (2019) Proceedings of the 4th International Conference on Communication and Electronics Systems, ICCES 2019, art. no. 9002104, pp. 280-284.
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- 63) Uma Kumari, **Dhanalakshmi Samiappan**, "All optical health monitoring system: An experimental study on visible light communication in biomedical signal transmission" Accepted 2017- **Springer** Lecture notes in networks and systems.
- 64) **Dhanalakshmi Samiappan**, Jaba Deva Krupa, "Epoch extraction using Hilbert Huang Transform for identification of closed glottis interval", Accepted 2017 - **Springer** Lecture notes in networks and systems.
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- 66) Mariselvam, **Dhanalakshmi Samiappan**, "Hilbert Huang Transform and its variants in engineering data analytics: State of the art and Research challenges", Accepted 2017- **Springer** Lecture notes in networks and systems.
- 67) Latha, S., **Dhanalakshmi Samiappan**, "A Hybrid Approach for Image Denoising in Ultrasound Carotid Artery Images" Accepted 2017, **Springer** Lecture notes in networks and systems.

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### **International Conferences:**

1. Uma Kumari, DhanalakshmiSamiappan, T.Rama Rao, Tata Sudhakar “Mach-Zehnder Interferometer Based High Sensitive Water Salinity Sensor for Oceanographic Applications”, IEEE- INDICON 2016, 16 Dec-18 Dec 2016, Bengaluru.

- 2.Dhanalakshmi,S., “Epoch Extraction using Hilbert Huang Transform for identification of closed glottis interval”, Proceedings of the 5<sup>th</sup> International Conference on Innovations in Electronics and Communication, 8<sup>th</sup> to 9<sup>th</sup> July 2016.
- 3.Jaba Deva Krupa, Dhanalakshmi, S. “Efficient Human Detection Technique for Intrusion Detection Systems”, Proceedings of Joint International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems, 19<sup>th</sup> to 21<sup>st</sup> May 2016.
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- 6.Dhanalakshmi, S. and Venkatesh, C. “Classification of Multi-category Abnormalities in Ultrasound Carotid Artery Images using an Extreme Learning Machine”, Proceedings of the International Conference on pattern Recognition and Multimedia Signal Processing, 9<sup>th</sup> and 10<sup>th</sup> January 2015.