

# PROF. KANJANA G.

Assistant Professor



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## Qualifications:

- B. Tech – Electronics and Communication Engineering (Kerala University)
- M. Tech – Signal Processing (Kerala University)

## Professional Experience:

- Assistant Professor, LBSITW, Trivandrum (2008-Till date)
- Assistant Professor, Mohandas College of Engineering, Trivandrum (2004-2007)

## Recently Taught Courses:

- [Analog Communication Engineering](#)
- [Digital Signal Processing](#)
- [Soft Computing](#)
- [Pattern Recognition](#)
- [DSP Lab](#)

## Other Responsibilities:

- Staff Advisor (2018-2022 ECE)
- Staff Advisor (2019-2023 ECE)
- Member of Question Paper Setting and Scrutiny committee of B.Tech courses of the University of Kerala and APJ Abdul Kalam Technological university
- R&Ee Forum Coordinator
- Timetable Coordinator
- Accreditation Coordinator

## Important Publications:

1. Kanjana, G., and M. K. Sheeja. "Secure Storage and Matching of Latent Fingerprints using Phase Shifting Digital Holography", Pattern Recognition Letters, Volume 153, January 2022, Pages 113-117.
2. Kanjana G, Meril Cyriac, Nelwin Raj N. R, Leena Thomas, Sheeja M. K, "Phase-Coded Multiplexing Technique for Holographic Data Storage System", Springer, International Conference on Optical and Wireless Technologies (OWT-2019).
3. Meril Cyriac, Kanjana G, Nelwin Raj N. R, Leena Thomas, Sheeja M. K, "Modified Pupil Set Based Resolution Enhancement of Optical Scanning Holographic System", SPIE, Optics & Optoelectronics Conference, 2019.
4. Kanjana G, Meril Cyriac, Nelwin Raj N. R, Leena Thomas, Sheeja M. K, "Holographic Recording of Microscopic images using Phase Shifting Interferometry", 31st Kerala Science Congress, February 2019.
5. Kanjana G, Meril Cyriac, Anusree L, Nelwin Raj N. R, Leena Thomas, Roshan Varghese, Sheeja M. K, "Iterative Fourier Transform Optimization of Computer Generated Fourier Holograms", Springer, Second International Conference on Optical and Wireless Technologies (OWT-2018).
6. M. K. Sheeja, N. R. Nelwin Raj, L. Anusree, Leena Thomas, Meril Cyriac, and Kanjana G., "Reduction in computation complexity of Fresnel Transform through low-rank matrix approximation", 11th International Conference on Optics-photonics Design and Fabrication, Hiroshima, Japan, Nov. 28 - 30, 2018.
7. Meril Cyriac, Kanjana G., Anusree L. Leena Thomas, N. R. Nelwin Raj, Roshan Varghese, "Secure Transmission of analysis of Optical Scanned Holographic Images for Efficient Communication", The 7th Laser Display and Lighting Conference 2018 (LDC'18), Yokohama, Japan, pp. 6 - 7, 2018.
8. L. Anusree, M. K. Sheeja, Kanjana G., Leena Thomas, Meril Cyriac, and N. R. Nelwin Raj, "Design and Development of Continuous Blood Pressure, Heart rate and Temperature Monitoring Instrument", 7th International Conference on Communication and Signal Processing, 2018.
9. G.H.Ghazia, Kanjana G., "An Enhanced Biometric Information Security System using Orthogonal Codes and LSB Steganography", IEEE, 2nd International Conference on Inventive Communication and Computational Technologies (ICICCT-2018).
10. G.H.Ghazia, Kanjana G., "An Enhanced Biometric Information Security System using Steganography and MRJTC", IEEE proceedings, ICCPCCT-2018.

## **Membership in Professional Organizations**

- Life member ISTE

## **Conference/Paper Presentation:**

- Publication Chair - NCACSI-2020 [National Conference On Communication signal Processing and Instrumentation NCACSI-2020]
- Reviewer - Technical papers - NCACSI-2023 [National Conference On Communication signal Processing and Instrumentation NCACSI-2023]
- Reviewer - Technical Papers - ICCSC-23 [International Conference on Computational Systems and Communication- 2023]
- Publication Chair - ICCSC-23 [International Conference on Computational Systems and Communication- 2023]