

Dr. SHEEBA K.

Associate Professor



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[Scholar Link](#)

Qualifications:

- B.Tech. B Tech. in Electronics & Communication Engg. from Govt. College of Engg. kannur ,1993
- M. Tech. M Tech in Digital Systems & Communication Engg . from NIT Calicut, 2006,
- Ph.D. Ph.D. from Karpagam Academy of Higher Education,2021, Thesis topic is “Developments of Fractal Image Compression Techniques “ .

Professional Experience:

- Associate Professor, LBSITW, Trivandrum (17/2/23 to till date)
- Associate Professor, LBSCEK, Kasaragod (1/11/2007 to 16/2/23)
- Senior Lecturer LBSCEK , Kasaragod (1/06/2006 to 31/10/2007)
- Lecture : LBSCE, Kasaragod (3/06/99 to 31/05/2006)
- Teaching Experience: Lecture : Govt. College of Engg Kannur 08/08/97 to 30/03/98.
- Industry experience: ISRO -LPSC: 6 months)

Recently Taught Courses:

- [Digital Image Processing](#)
- [Information Theory and Coding](#)

- [Linear Integrated Circuits](#)
- [Digital Communication](#)
- [Signal Compression](#)
- [Communication Engg. Lab](#)

Other Responsibilities:

- Head of the Department
- Member of Question Paper Setting and Scrutiny committee of B.Tech courses of APJ Abdul Kalam Technological University
- Group tutor ship (PG and UG)
- Convener - Ladies Grievance and redressal cell
- Member in KU Board of Studies
- PSC Question paper setter.

Important Publications:

- K. Sheeba, M. Abdul Rahiman, "Gradient based fractal image compression using Cayley table" Elsevier-Measurement 140 (2019) 126–132 available at ScienceDirect
- K. Sheeba, M. Abdul Rahiman, "Fractal Image Compression Using Gradient Based Affine Transformation Prediction", Jour of Adv Research in Dynamical & Control Systems, Vol. 10, 15-Special Issue, 2018.
- K. Sheeba, M. Abdul Rahiman, "Iteration less Wavelet-Fractal Image Compression Applicable in Cellular Mobile Communication System, International Journal of Computer Applications (0975 – 8887) Volume 136 – No.8, February 2016
- Nithin P P, Sheeba K, Hybrid Lossless Binary Image Compression Using RLC and RCRC, IJCAT - International Journal of Computing and Technology, Volume 3, Issue 6, June 2016, ISSN : 2348 – 6090 , www.IJCAT.org

- Arjun Purushothaman, Sheeba K, An Improved Hybrid Wavelet-Fractal Image Compression Using Gradient Based Method, IJCAT - International Journal of Computing and Technology, Volume 3, Issue 6, June 2016, ISSN : 2348 – 6090 www.IJCAT.org.
- Nithin P P, Sheeba K, A Review on Lossless Compression Methods for Binary Images, International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering nCORETech LBS College of Engineering, Kasaragod Vol. 3, Special Issue 1, February 2016

Research & Consultancy:

Membership in Professional Organizations

- Life member ISTE
- IEEE Member

Conference/Paper Presentation:

- K. Sheeba, M. Abdul Rahiman, Fractal Coding Using Gradient Direction Based Tag Matrix and Score Value, Procedia Computer Science 93 (2016) 439 – 445 Published by Elsevier B.V, CACC 2016, 6-8 September 2016.
- Sheeba K, “Hybrid Fractal Image Compression with Fine DWT Coefficient and Affine Transformation Prediction, nCORETech-2015
- Sheeba K, “Lossless Color Image Compression Using Super Spatial Structure Prediction and Hierarchical Prediction, nCORETech-2015 K.
- Sheeba, “Image Enhancement Using Adaptive Learning, 6th Annual Research Congress KURAC-2014.
- Sheeba K, “Image Inpainting with Decomposition”, International Conference on VLSI and Communication, SAINTGITS College of Engineering, Kottayam, 2000