

# ANJU JOSE TOM

Karukappallil (H), Kadamakuzhy P.O,  
Vallakkadavu, Kattappana, pincode : 685515  
Idukki district, Kerala state  
India  
Asia



Email : anjujoseetom@gmail.com  
Mobile : +91 9745497468

## EDUCATION

- National Institute of Technology (NIT), Calicut, Kerala, India** CGPA: 8.75  
*Ph.D in Electronics & Communication Engineering.* Dec. 2016 – Dec. 2019 (expected)
- College of Engineering, Cherthala, Kerala, India** CGPA: 9.4  
*Master of Technology in Signal Processing.* Aug. 2014 – May. 2016
- Saintgits College of Engineering, Kottayam, Kerala, India** CGPA: 8.6  
*Bachelor of Technology in Applied Electronics and Instrumentation.* Aug. 2010 – May. 2014
- St.George Higher Secondary School, Kattappana, Kerala, India** 95 %  
*Higher Secondary Education.* July 2008 – July. 2010

## RESEARCH

- Ph.D** NIT, Calicut  
*Area: Moving Object Detection from surveillance videos* Dec 2016 - Present
  - Objective:** To design and implement algorithms for Moving Object Detection (MOD) from surveillance videos which are capable of addressing the challenges such as dynamic background, incompleteness, and subsampling in video data.
- Post Graduation** CEC, Cherthala  
*Project Title: Ripplet Transform based Medical Image Compression* Aug.2014 - Aug.2016
  - Objective:** To design and implement algorithms for Medical Image Compression using Ripplet Transform.
- Membership in Professional Organizations**
  - 1:** Institute of Electrical and Electronics Engineers (IEEE)
  - 2:** International Society of Automation (ISA)
- Research Publications**
  - 1:** Anju Jose Tom, Sudhish N. George, "A Three Way Optimization Technique for Noise Robust Moving Object Detection using Tensor Low Rank Approximation,  $l_{1/2}$  and TTV Regularizations", *IEEE Transactions on Cybernetics*, (accepted), DOI : 10.1109/TCYB.2019.2921827.
  - 2:** Anju Jose Tom, Sudhish N. George, "Video Completion and Simultaneous Moving Object Detection for Extreme Surveillance Environments", *IEEE Signal Processing Letters* 2019, vol 26, pp:577-581.
  - 3:** Shijila B, Anju Jose Tom, Sudhish N. George, "Simultaneous denoising and moving object detection using low rank approximation", *Future Generation Computer Systems*, Elsevier 2019, vol 90, pp:198-210.
  - 4:** Shijila B, Anju Jose Tom, Sudhish N. George, "Moving object detection by low rank approximation and l1-TV regularization on RPCA framework", *Journal of Visual Communication and Image Representation*, Elsevier, 2018, vol 56, pp:188-200.
- Conferences**
  - 1:** Anju Jose Tom, Sudhish N. George, "Tensor Total Variation Regularized Moving Object Detection for Surveillance Videos", in *IEEE Int. Conf. on Signal Processing and Communication (SPCOM 2018)*, pp: 327-331, IISc, Bangalore, India, 2018.
- Awards and Certifications**
  - 1:** Prize for Outstanding Student Performance, Department of Applied Electronics and Instrumentation (AEI), Saintgits College of Engineering
  - 2:** Prize for best mini project, Department of AEI, Saintgits College of Engineering
  - 3:** Certified LabVIEW Associate Developer (CLAD) (Awarded by National Instruments Corporation.)

## • References

- **1:** Dr. Sudhish N. George  
Assistant Professor  
Department of Electronics and Communication Engineering,  
National Institute of Technology, Calicut, Kerala, India.  
email : sudhish@nitc.ac.in
- **2:** Dr. Bindhya T  
Assistant Professor  
Department of Electronics and Communication Engineering,  
National Institute of Technology, Calicut, Kerala, India.  
email: bindhya@nitc.ac.in
- **3:** Dr. Jimmy Jose  
Assistant Professor  
Department of Computer Science Engineering,  
National Institute of Technology, Calicut, Kerala, India.  
email: jimmy@nitc.ac.in