

ACM Goa Professional Chapter presents

A Talk by Dr. Shitala Prasad, IIT Goa

Deep Learning Challenges in Industrial Vision

On Fri 17th Feb 2023 4pm-5pm
Online

Zoom Meeting Link:

pass code: 735239

<https://us06web.zoom.us/j/87646678052?pwd=ME1tMVRxRTd2L1NHTXg0K0VQeTZtdz09>

Register on this link for future updates:

<https://forms.gle/hai1vbuXSUMHMKa96>



**ACM Goa
Professional
Chapter**

Abstract:

3D object recognition is a well studied 2D multi-view object classification task that achieves high accuracy if the object textures are distinctive. However, if objects are texture-less and are only differentiable by their shapes but at certain viewpoints. Thus, the problem is still very challenging. Furthermore, the existing methods are mostly based on supervised learning with lots of images per object which are difficult to collect and label them for training. In this letter, we introduced a multi-loss view invariant stochastic prototype embedding to minimize and improve the recognition accuracy of novel objects at different viewpoints by using a progressive multi-view learning approach. An extensive experimental result shows that the proposed method outperforms the state-of-the-art methods on different types of data sets and also on different backbones.



About the Speaker:

Dr. Shitala Prasad is an Assistant Professor of Computer Science and Engineering. He obtained his PhD from the Indian Institute of Technology Roorkee. His research interests are in deep learning, pattern recognition and computer vision. He is an expert in image analysis and understanding which is used in industrial applications, biometrics, agriculture/agro-industry, etc. He worked as a Scientist at the Institute for Infocomm Research (I2R), A*STAR Singapore, Singapore before joining IIT Goa. Previously he was a researcher at NTU Singapore and CNRS France. He is a Senior Member of IEEE.