



## Потенциальный партнер для конкурса совместных белорусско-индийских научно-технических проектов

Отдел маркетинга и научных коммуникаций информирует, что Dr. Prakash Periyasamy (доцент, Vellore Institute of Technology, Индия) выразил заинтересованность в подготовке и подаче совместной с БГУИР проектной заявки на текущий конкурс белорусско-индийских научно-технических проектов, объявленный ГКНТ и Министерством науки и технологий Республики Индия.

Прием заявок на конкурс до 5 сентября 2022 г.

[Подробнее о конкурсе.](#)

Области научных интересов Dr. Prakash Periyasamy: облачные вычисления и машинное обучение (Cloud Computing and Machine Learning).

Со списком публикаций профессора можно ознакомиться по ссылкам [Scopus](#), [Google Scholar](#).

Ниже представлены возможные тематики проектов.

В случае заинтересованности просим сообщить предполагаемую тематику совместного научного проекта на почту [science@bsuir.by](mailto:science@bsuir.by).

# Research Problems

## India-Belarus Joint Call for Proposals

By

Department of Science & Technology, India

and

State Committee on Science and Technology of the Republic of Belarus

Dr. Geetha S Professor and Associate Dean (Research)

Dr. Asnath Victy Phamila Y Associate Professor

Dr Prakash P Associate Professor

Dr. Sakthivel V Assistant Professor

Vellore Institute of Technology, Chennai, India

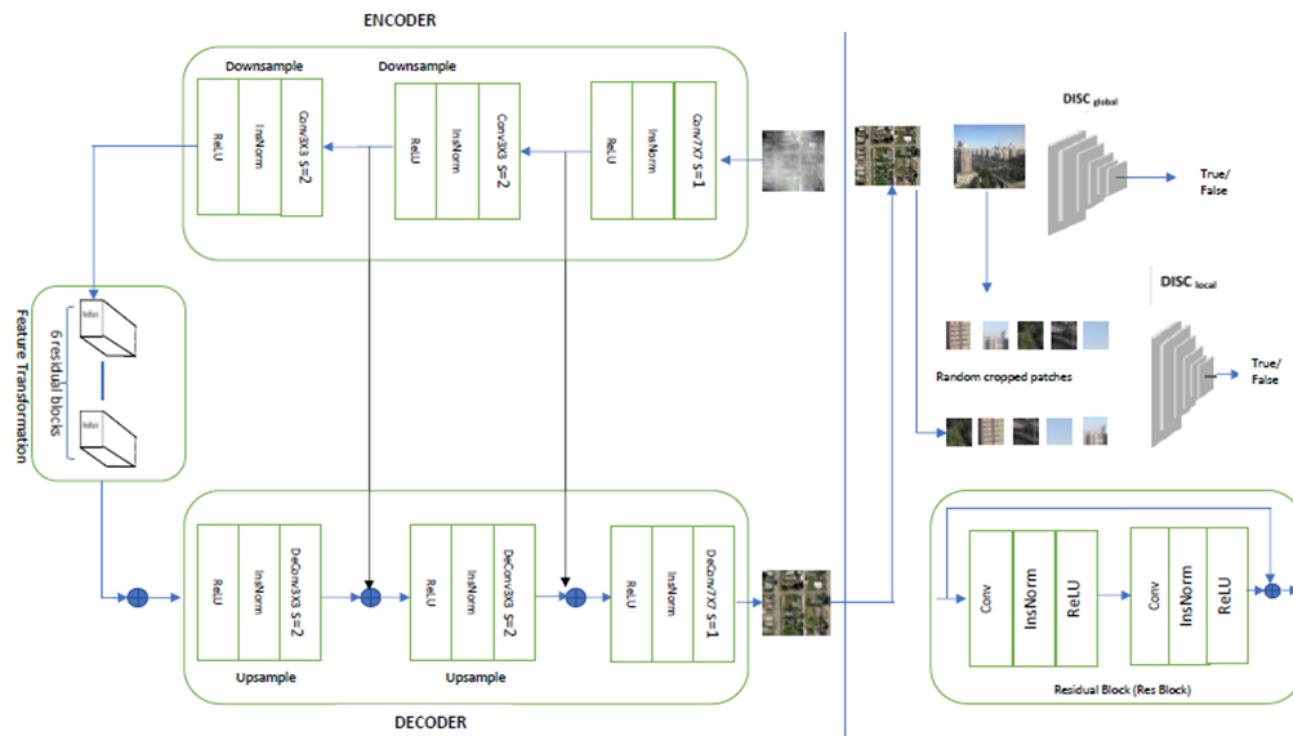
<https://chennai.vit.ac.in/>

# Research Domains

- Image Processing
- Cloud Computing
- Artificial Intelligence in Education and Health care systems



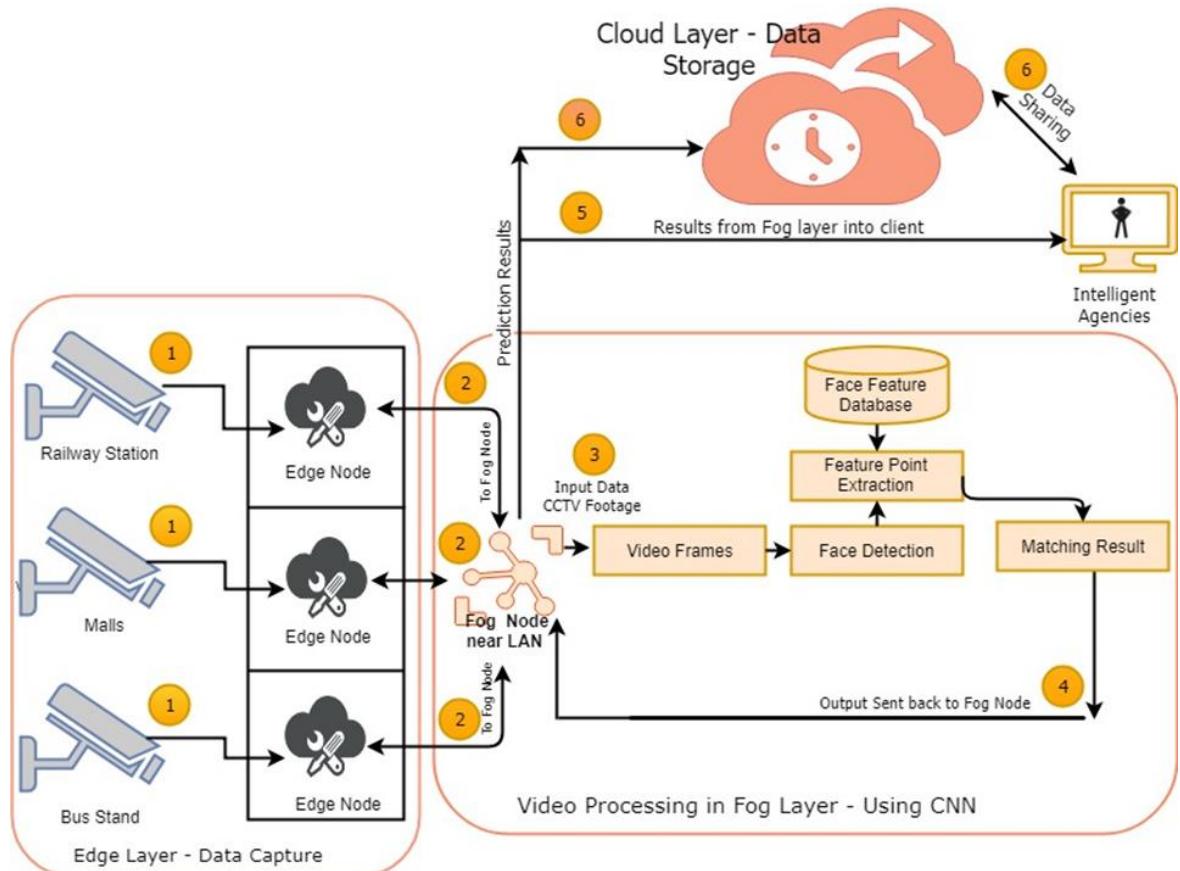
# Data Driven Approaches for Dehazing of High-Resolution Multispectral Remote Sensing Images



➤ Objectives :

- Single image dehazing model that alleviates the image dehazing problem to an un-paired image-to-image mapping and translation
- To reduce the no-reference, single image dehazing problem to an image-to-image mapping translation problem, and then design, develop and train an Improved CycleGAN Dehazing Model (ICDM) which will convert a hazy image to a haze-free one.

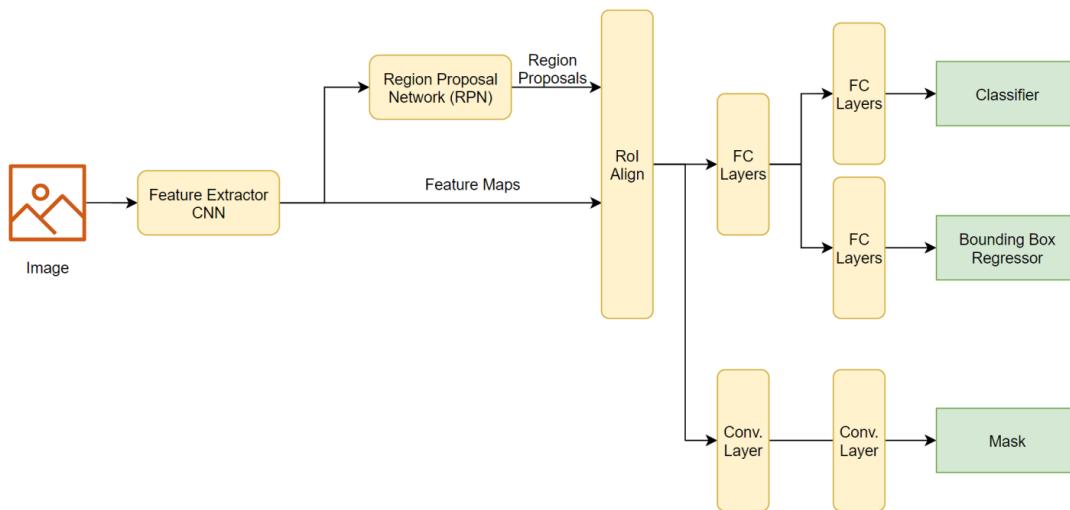
# Fog Computing Based Video Surveillance System Using Deep Learning Model



## ➤ Objectives :

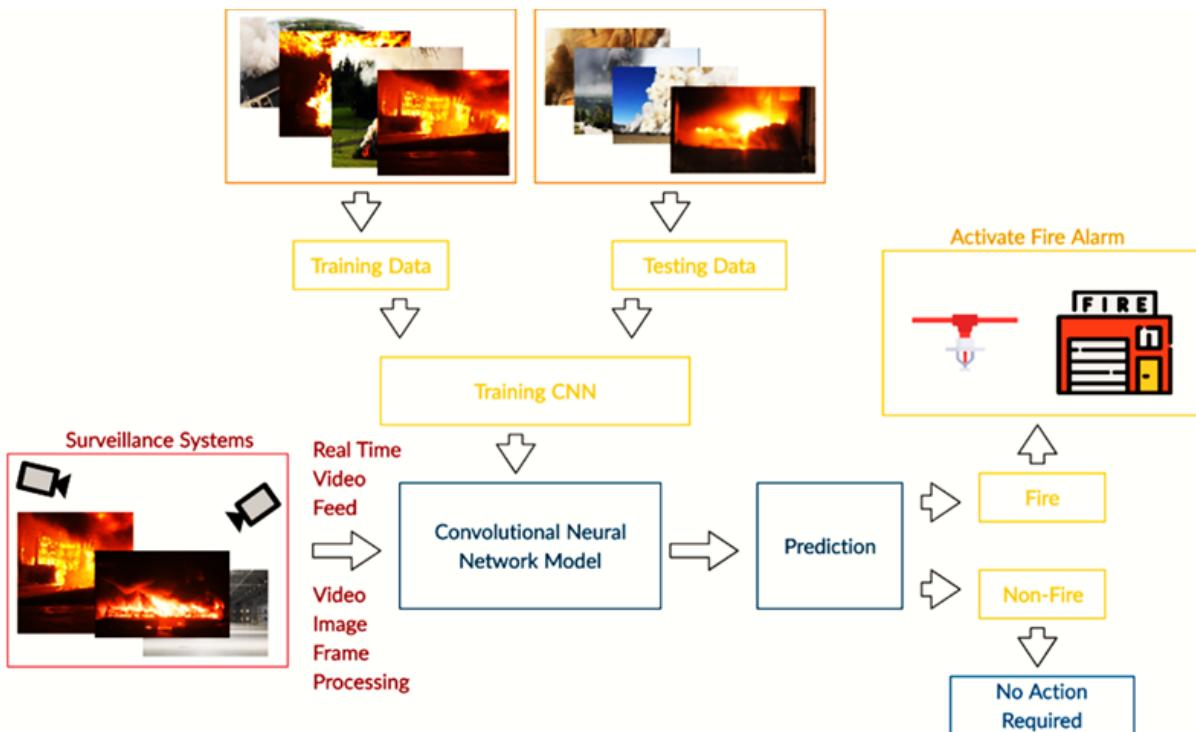
- Develop a lightweight layered live video surveillance system using fog computing which is capable of operating with limited infrastructure facilities.
- Design an efficient video surveillance system by deploying a convolution neural network model.

# Leather Image Quality Classification and Defect Detection System based on Deep Learning



- Objectives :
- Automated feature learning and extraction
- To develop the system for leather image classification and defect detection

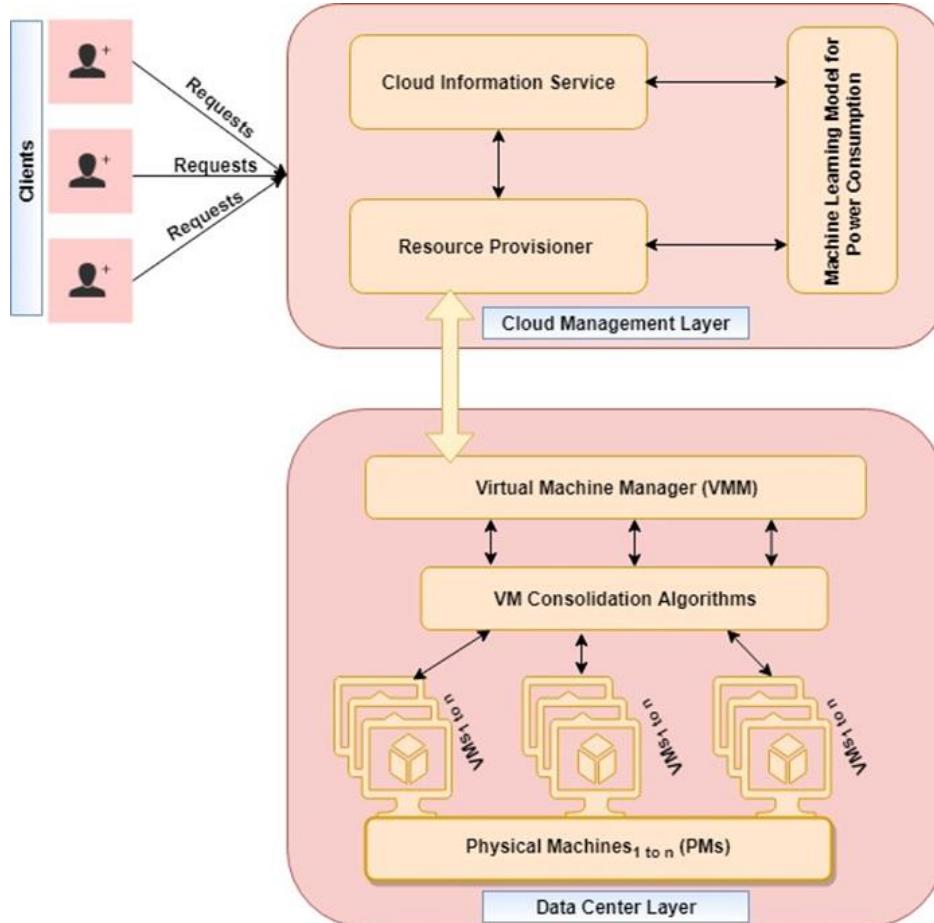
# Fire and Smoke Detection System based on Deep Learning



➤ Objectives :

➤ To develop a system based on the Faster R-CNN architecture that can be used for fire and smoke detection.

# An Intelligent framework for virtual machine consolidation in datacenter using machine learning model



## ➤ Objectives

- Intelligent model to predict power consumption of VM using machine learning model
- Design and develop an efficient VM placement algorithms to minimize the power consumption with the least number of VM migration

Thanks

