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Radar Remote Sensing (EE 579)

Abstract:

The research project discusses the dynamic relations of optical remote sensing when observed through vehicular-mounted cameras for the dual purpose of monitoring traffic congestion and assessing land cover changes. The aim is to enable the vehicles to remotely sense and adapt to evolving traffic dynamics as well as scrutinize the variations in land cover. Image processing and analysis methods will be used to interpret the data by splitting them into successive keyframes. The output would be in terms of heat maps and geospatial maps for traffic congestion and landcover changes.

This would come under 'Geospatial Optical Sensing'.

Tools to be used: MATLAB, OpenCV(for image analysis), ROS(for simulation)