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Image-Sensing-Smart-Parking Systems (ISenSmaP)

Aakriti Sharma Ms

Western University, ashar462@uwo.ca

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Image-Sensing-Smart-Parking Systems (ISenSmaP)

IsenSmaP is a cost-effective, real-time, CCTV assisted autonomous parking environment that uses visuals from the surveillance cameras to identify empty parking spots and provide real-time statistics about parking occupancy. The present research aims at offering an improved experience to the drivers in search of vacant parking spaces without loitering in the parking lot. Machine Learning (ML) algorithms such as mask-RCNN (Region based CNN) will be used with the purpose of generating highly accurate and precise results for the users. Also, the system comes with additional features such as color, size, and make of the vehicles. 5G network will provide the wireless coverage for the real-time video-feed transmission and other communications between various IsenSmaP system components. The project is expected to offer major benefits to the drivers, parking lot operators, and the government/road-operators