A Real - time system for the automatic identification of motorcycle

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Abstract - It has been observed from literature, a real-time system for the automatic identification of moving motor cycle . The system uses the latest image processing techniques for the processing of images and artificial neural networks for the recognition purpose . The proposed system is intended for the automatic control and monitoring of a motorcycle parking lot. One digital camera is to be fixed suitable in the inward passage of the parking area and another digital camera is to be fixed suitable in the outward passage of the parking area to capture the image of the motorcycle with cyclists. Form the first image, the vehicle number from the number plate of the motorcycle and the head feature of the cyclist are extracted and are stored in the real-time distributed database. From the image of the return trip of the motorcycle the same detail as extracted and the corresponding image features are retrieved from the database . These features are then compared and provide valuable information to the parking area controller . The proposed system is an extension of the works presented in this papers [1, 2, and 3].The system works well under various lighting conditions and can be employed as Real-time vehicle monitoring and Information system .