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(57) Abstract :

The invention discloses a Computer Vision System (100) for detecting vehicle license plates comprising an input module (100), preprocessing unit (101), region detection module (102), OCR recognition module (103), database integration unit (104), and output interface (105). The system enhances captured images, localizes license plate regions, and accurately recognizes alphanumeric details using deep learning-based OCR. Real-time integration with law enforcement and transportation databases enables immediate decision-making. The invention provides robust, scalable, and highly accurate license plate detection adaptable across varied environmental conditions and plate formats.

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