

Automated Number Plate Recognition of Mobile Vehicle

Automated Number Plate Recognition (ANPR) is also known as Automated License Plate Recognition (ALPR). Automatic Number Plate Recognition or ANPR is a technology that uses pattern recognition to 'read' vehicle number plates. In simple terms ANPR cameras 'photograph' the number plates of the vehicles that pass them. This 'photograph' is then fed in a computer system to find out details about the driver and owner of the vehicle and details about the vehicle itself. ANPR consists of cameras linked to a computer. As a vehicle passes, it will be detected through IR sensors and then Camera is activated to take picture of number plate. ANPR 'reads' Vehicle Registration Marks - more commonly known as number plates - from digital images, captured through cameras located either in a mobile unit, in-built in traffic vehicles or via Closed Circuit Television (CCTV). The digital image is converted into data, which is processed through the ANPR system. In this paper, we proposed a method mainly based on edge detection, OCR operation and Finding Rectangles in a Vehicle Image. The technical method of artificial vision is optical character recognition (OCR) that allows the recognition of number plates in images of vehicles. Historically, it has been applied on security systems to control accesses of vehicles and car parks. Nowadays, the ANPR technology has improved its reliability.

