Development of Safety Check Support Device for Driver Using Side Camera on Rolling Stock

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This paper describes the development of a safety check support device to further enhance safety check on the platform using side cameras on rolling stocks. Utilizing deep learning-based image processing techniques, the developed device detects the approach of passengers on the platform in real-time from camera footage to notify the driver of it, providing assistance in safety checks. Additionally, the device is equipped with the function of automatic passenger counting at each station. This paper presents an overview of the developed device and reports the results of the evaluation experiments.