

## **Inspection System for Evaluating Wooden Sleeper Deterioration Using Image Analysis of Video**

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In order to save labor work in inspecting track facilities using a low-cost and simple inspection system, we have developed a system for inspecting wooden sleepers using forward view images of camcorders from train cabs. The system uses deep learning to judge the deterioration of wooden sleepers from images. In this paper, we report the outline of the system: judgment accuracy, and verification results to see if the progress of deterioration can be assessed.