

**Development of Train Stop and Passenger Evacuation Support System
to Avoid Damage from Local Short-Term Heavy Rain**

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There is an increasing risk that trains in operation suffer hazards such as unexpected flood due to local short-term heavy rain. The risk is not always treated by existing safety measures based on observation data from rain gauges installed along a railway line. This paper describes a train stop and passenger evacuation support system which we have developed to address the problem. The system can immediately calculate stop positions of trains and safety evacuation routes of passengers to minimize the risk in case of emergency. Moreover, the system can visually show calculation results for intuitive grasp.