

Recent Topics on Railway Vehicle Technology

Kimiaki SASAKI

This paper introduces recent topics on the railway vehicle technology about a new tilt control system and a steering control system which have been developed in RTRI. Motion sickness on trains increases by low-frequency lateral accelerations. The tilt control system decreases the motion sickness by optimizing tilting pattern, which decreases low frequency lateral accelerations. The steering control system works as a fail-safe system, which does not increase the lateral force even if it is in any failure situations. Further, a hybrid emulation system to test vehicle characteristics in actual train running conditions based on HILS technology is introduced.