

**Measures to Prevent Pedestrians from Entering Level Crossing during Warning Alarm
Based on Voice Alarm and the Start Timing of Level Crossing Rod**

Toshiaki KABURAGI Naohiro AKIU Ayano SAITO Yumeko MIYACHI

Most of the conventional measures to prevent accidents at level crossings are for automobiles, and measures for pedestrians have not been sufficiently examined. In addition, 60 % of the people who entered during the warning alarm and were actually left behind within the level crossing, recognized the meaning of the warning sound that conveys “no entry” as “caution”. Therefore, we examined both the addition of voice message to the alarm sound that conveys “no entry” and setting the earlier start timing of level crossing rod, and verified the effect. As a result, we confirm that the proportion of pedestrians entering during the warning alarm ringing is decreased.