

**Development of VR-Based Training Materials  
for Fundamental Operational Procedures of Railway Conductors**

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This study developed two VR (virtual reality) training materials, — from a first-person and a third-person perspectives — to support railway conductors in learning fundamental safety procedures. The two materials were created using high-resolution 360° video and tested with trainee and senior conductors. Both perspectives were rated as helpful for understanding the required procedures, and VR-based training was generally well accepted. Participants indicated complementary benefits of the two perspectives. These findings suggest that VR materials can serve as a practical tool for facilitating the acquisition of fundamental operational procedures of railway conductors.