

## **Applications of Simulation Technology for Human Scientific Approach in Railway Systems**

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“Human simulation” has been one of the major keywords in recent human science experiments and published papers. This particular paper reviews applied human simulation methods for railway ergonomics. There are two types of simulations: one is environmental simulators applying virtual reality technology such as Driving Simulators, Ride Comfort Simulators and Railway Station Simulators. Another type is computer simulations dealing with topics such as (i) evaluations of the workload level experienced by train drivers, or, (ii) passengers’ motion patterns and injuries caused by train collisions.