

**The Recent Trend in Research on Numerical Simulation Techniques Applied to
Dynamics in the Railway System**

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RTRI has been making efforts toward the creation of innovative technical solutions for various dynamic problems caused by the characteristics of the railway system. Numerical simulation technique is one of the powerful tools for promoting such research works; therefore, RTRI started developing organized simulation tools named “Railway Simulator” using high performance computing technologies in 2010. This paper describes the recent trend in research on numerical simulation techniques applied to research on dynamics in the railway system.