

Recent Activities for the Research and Development of Vehicle Technology

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At RTRI, we grapple with around 280 research themes in the fiscal year 2017 to 2018. Among them, there are 46 themes regarding the rolling stock technology, which include a wide range of themes, namely the practical themes such as the speedup of the trains and the improvement of the riding comfort, the applied research such as the running stability and reliability of the rolling stock, and finally the fundamental research such as the elucidation of the mechanisms of the wear of the wheel. Here, I summarize such three research topics as follows: “Quantitative evaluation of the wheel flat affecting the behavior of vehicle bogies” , “Development of a 3-Dimensional measurement device for wheel profiles” and “Evaluation of the running safety of railway vehicles under the air spring deflation” .