

Development of a Human Model for Railway Collision on Numerical Simulation

Kazuma NAKAI Daisuke SUZUKI Shota ENAMI

Dummy models for numerical simulation of impact has their evaluable direction. For example, when evaluating the collision safety, separate dummy models are employed depending on whether the dummy models are facing in the direction parallel to the travel or perpendicular to the travel. Meanwhile, it is difficult to evaluate the interior components of Japanese railway vehicles because the physiques of dummy models are based on Westerners. Therefore, this study proposed a human model for Japanese to evaluate various situations in a railway vehicle.