

## **Recent Topics on Human Scientific Approach to Railway Transport Research**

Hiroaki SUZUKI

Human Science is a generalized term that encompasses research on human psychology, behavior and responses through a scientific approach. The main purpose of applying the human scientific approach to railway transport issues is for the improvement of passenger/employee safety and comfort. This paper outlines recent topics and potential developments of this approach. Recent major topics have included the following: development of an experience-based system to aid in the prevention of human error using a point-and-call check, simulation of passengers' motion patterns and potential injuries caused by train collisions, improvements in the provision of information upon suspended train services through PA systems, risk management system for human error, and evaluation of the influence of electric and magnetic fields on health.