

Recent Research on Application of ICT for Railway

Shigeto HIRAGURI

This paper outlines the problem about joint application of information for railway operation and the recent research and development of information network, train operation and telecommunication system. It describes the basic concept of network infrastructure for railway operation and its benefits for train operation, maintenance of facilities, and so on. It also describes that the network infrastructure will enable joint application of various data among business fields, and realizes highly efficient condition based maintenance and creation of new value based on big data analysis or computer simulation. Finally, it introduces the recent research of the precise and adaptable train control method and application of millimeter wave radio.