

**A Risk Evaluation Method for the Improvement of
Railway Signalling Systems**

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High-level safety is essential for the railway signalling systems, for which various measures are taken to prevent failures susceptible to accidents based on the fail-safe concept, in view of the fact that the failures of the systems will potentially cause serious accidents. An International Standard, requiring reliability, availability, maintainability, and safety of the railway signalling systems, has been more important recently. In these kinds of systems, safety is the most important matter. However, considering that current high-level of availability is also required, we try to show a case study on a risk evaluation, based on costs per hour, which can represent both safety factors and availability ones as the same measure.