Abstract

A “control table” is a functional specification of the signaling system of a railway section. It specifies the routes on which trains are allowed to pass. Control table for interlocking system in Indian Railways is done by a vendor. This control table is verified for correctness by another vendor. The process followed to generate this control table remains a black box, i.e., unknown. Through this paper, a working system has been proposed to explore this unknown process and come up with correct control table entries for a given layout of railway section.

References

Identifying Conflicting Routes in Control Table of Indian Railways Interlocking System using NuSMV


Index Terms

Computer Science  Control Systems
Keywords

Railway Interlocking, Formal Methods, Model Checking, NuSMV