

**A Unification Method of the Computer-aided Logic Design  
for the Railway Signal Control Units**

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Railway signal control units include an interlocking device, a signaling device, a level crossing device and an ATS device, and these devices work in conjunction with each other. The equipment constituting these devices is located dispersively in the track and takes various forms. Therefore, an individual design is necessary for each device. The logic design is not allowed errors and requires much labor. We have developed a computer-aided logic design tool for the interlocking device so far. By applying this, we research a unification method of computer-aided logic design for the railway signal control units.