

**Development of a System to Make up an Interlocking Circuit Diagram
Automatically from an Interlocking Table**

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An interlocking circuit diagram expresses the control logic of the interlocking device. It can make the inside movement visible, but making up a diagram is not easy. On the other hand, an interlocking table does not express the control logic itself, but it describes the control condition so that human being can easily understand it. Therefore, we have developed a system, which makes up an interlocking circuit diagram automatically from an interlocking table. We examined the class structure of a circuit diagram, the generalization method of the normal circuit diagram, the clarification of the correspondence with an interlocking table, and the automatic layout technique of a circuit diagram. As a result of having made up a system experimentally based on those examinations, we have been able to make up a circuit diagram automatically.