In large-scale-network failure management, operators have to manually analyze a massive number of alarms and find failure points by using test tools. We proposed the technology that automatically estimates points of failure to show network failure points. The technology contributes to rapid recovery, reducing OPEX.

**Features**
- Shows estimated points of failure on a network topology map by rule-based analyzing between alarms with point of failure candidates
- Increases estimation accuracy by automatic rule generation and modification that is able to learn from a skilled operator’s know-how in alarm analyzing
- Uses Jubatus\(^1\) for extracting particular failure alarms to create and modify rules
- Uses the rule engine that has flexibility, extensibility and high performance

**Application Scenarios**
- Reducing OPEX of analyzing alarms and diagnosis tests in network management
- Applying for carrier networks, data centers and campus networks by sharing rules on cloud services

**Collaboration Partner**
Hitachi, Ltd.
Worked on the rule engine (in 2015 collaborative project)

\(^1\) An open source platform for online distributed machine learning on the data streams of Big Data

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