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Analyzing maintainability and reliability of object-oriented software using weighted complex network

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**Highlight**

- A method to measure the weights of nodes and edges of software-based complex network.
- 40 open-source software systems were chosen to evaluate the proposed technique.
- Common statistical patterns from the software systems can be identified easily.
- When compared based on maintenance efforts, their patterns are more distinctive.
- The proposed method allow software maintainers to identify fault prone classes.

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