## **Accepted Manuscript**

Test Prioritization in Continuous Integration Environments

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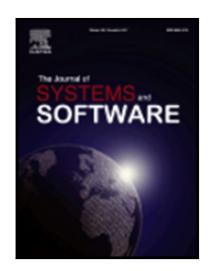
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#### ACCEPTED MANUSCRIPT

#### Highlights

- Historical failure knowledge seems to have strong predictive power in CI environments
- History-based TCP does not necessarily require a large amount of historical data
- Diversity-based TCP can be used effectively when no historical data is available
- Diversity-based TCP can be combined with History-based TCP to improve its effectiveness
- $\bullet$  History-based diversity using NCD Multiset achieved highest APFD but lowest performance

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