Accepted Manuscript

Test Prioritization in Continuous Integration Environments

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PII: S0164-1212(18)30173-0
DOI: https://doi.org/10.1016/j.jss.2018.08.061
Reference: JSS 10216

To appear in: *The Journal of Systems & Software*

Received date: 5 March 2018
Revised date: 20 August 2018
Accepted date: 28 August 2018

Please cite this article as: Alireza Haghighatkhah, Mika Mäntylä, Markku Oivo, Pasi Kuvaja, Test Prioritization in Continuous Integration Environments, *The Journal of Systems & Software* (2018), doi: https://doi.org/10.1016/j.jss.2018.08.061

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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
- History-based diversity using NCD Multiset achieved highest APFD but lowest performance

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