

Sentinel – Appendices

Giovani Guizzo, Federica Sarro, Jens Krinke, and Silvia R. Vergilio



1 INTRODUCTION

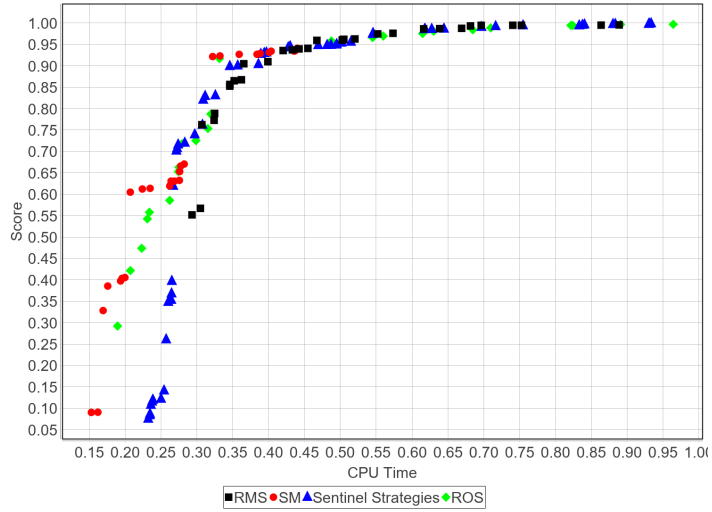
This document presents all the Pareto Fronts found for the programs used in the experimental evaluation reported in the paper: “Sentinel: A Hyper-Heuristic for the Generation of Mutant Reduction Strategies”.

The fronts in the following sections contain all the non-dominated solutions (strategies) found for the 4 versions of the given program. For all figures, the Y axis represents the Mutation Score approximation obtained by the strategy, and the X axis represents the CPU time taken to execute the strategy and its selected mutants in relation to executing all mutants.

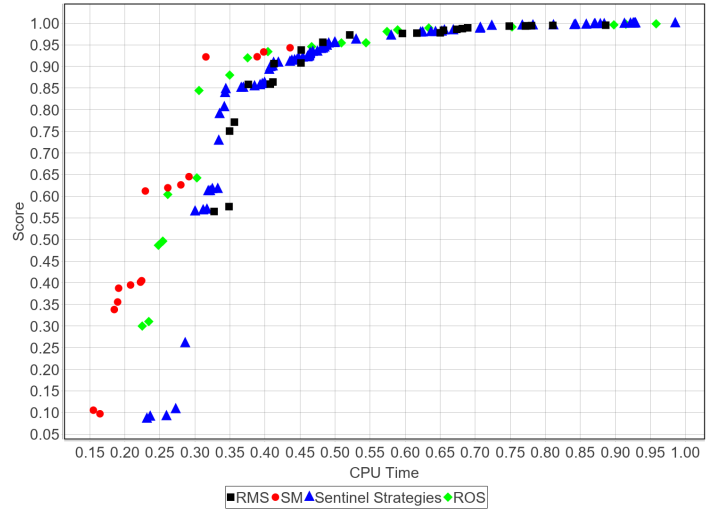
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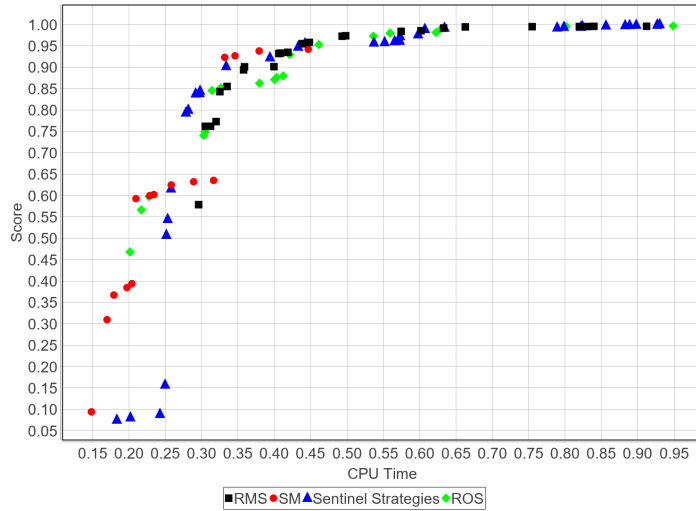
2 APACHE COMMONS BEANUTILS



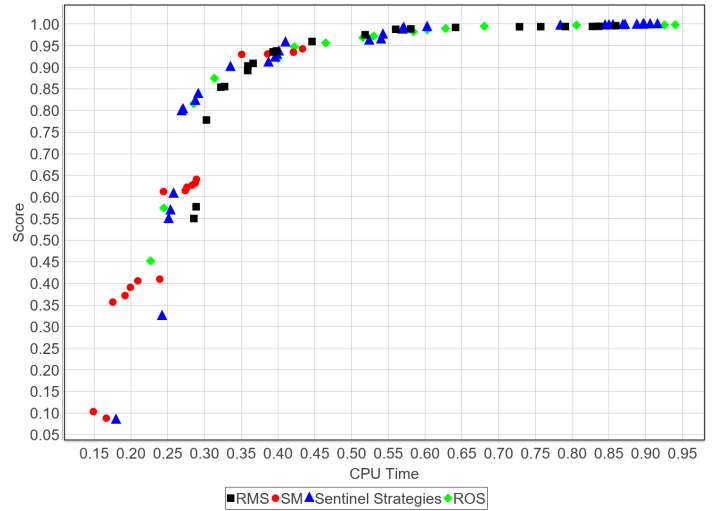
(a) commons-beanutils-1.8.0



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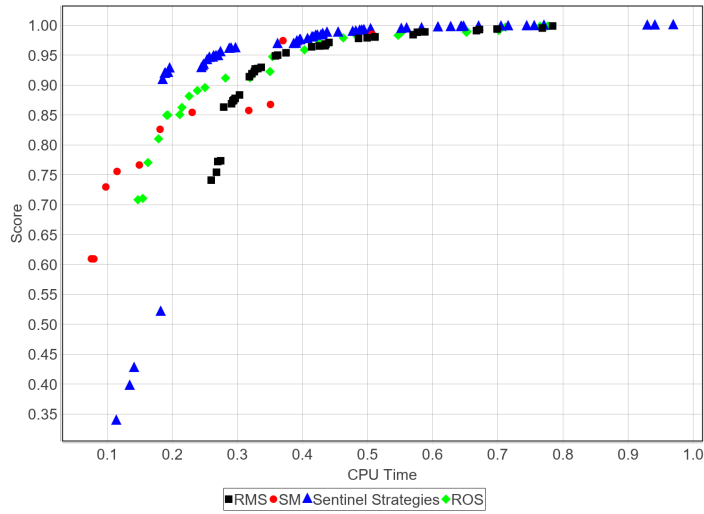


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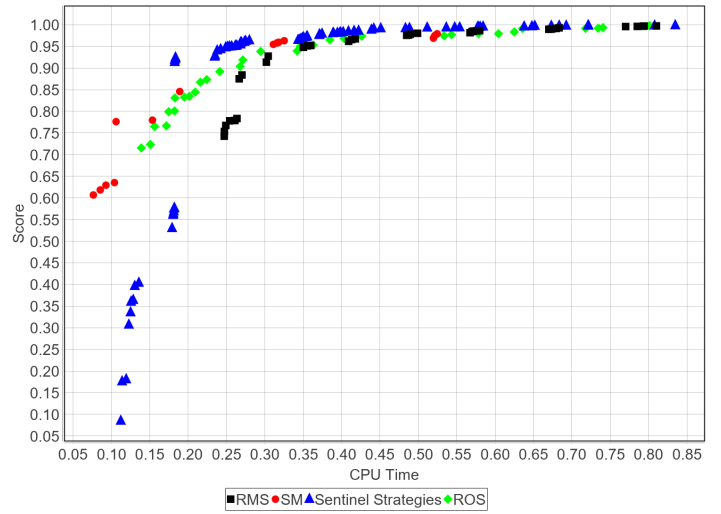


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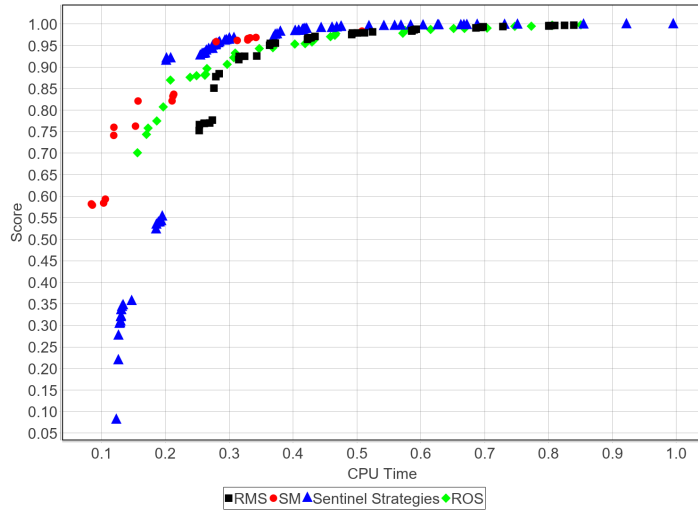
3 APACHE COMMONS CODEC



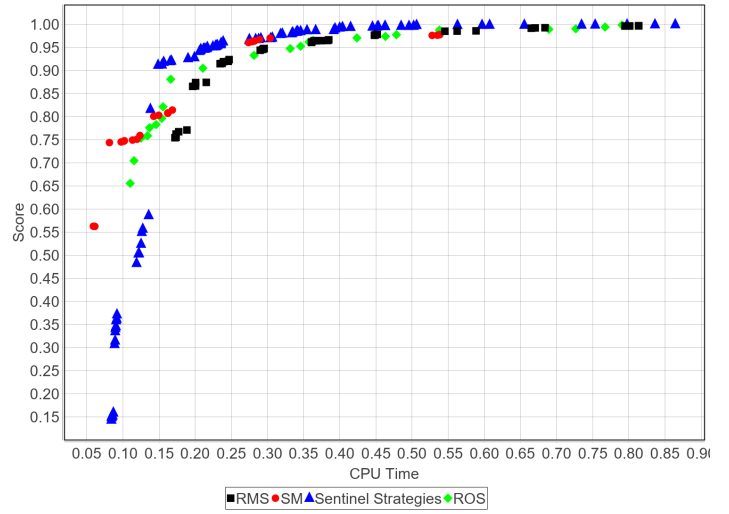
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(b) commons-codec-1.5

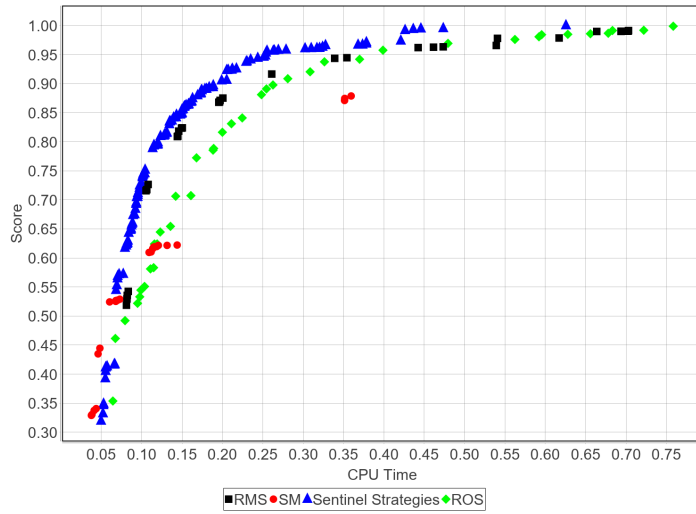


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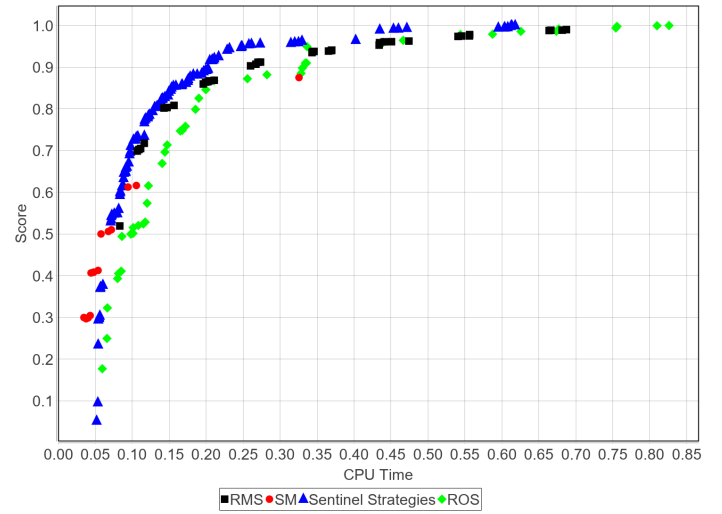


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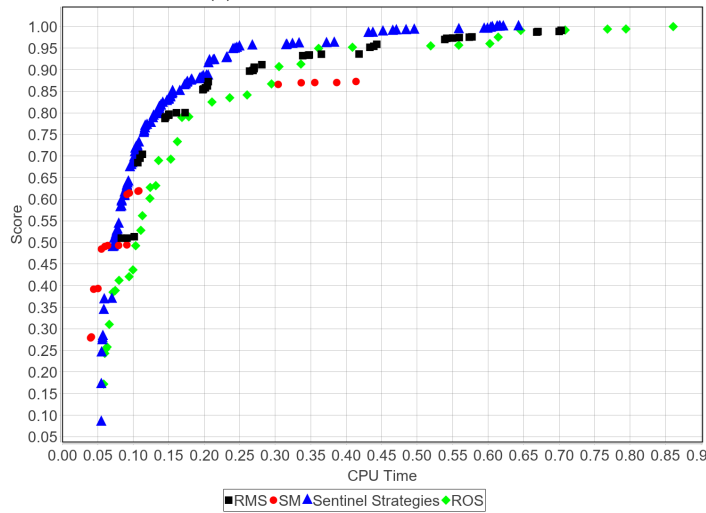
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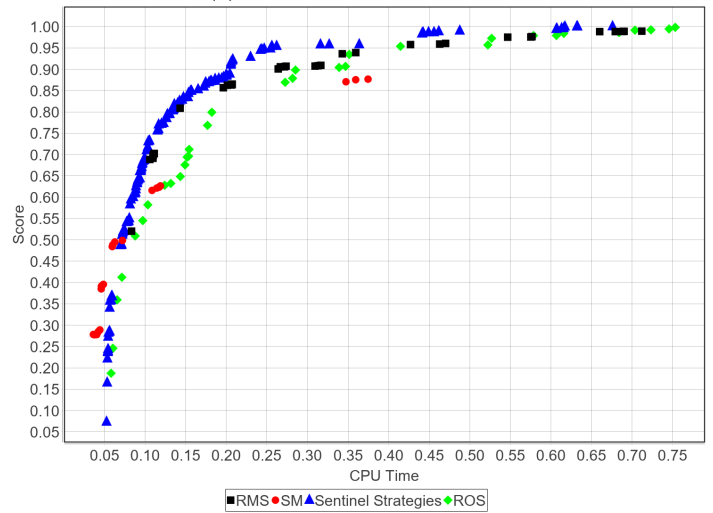
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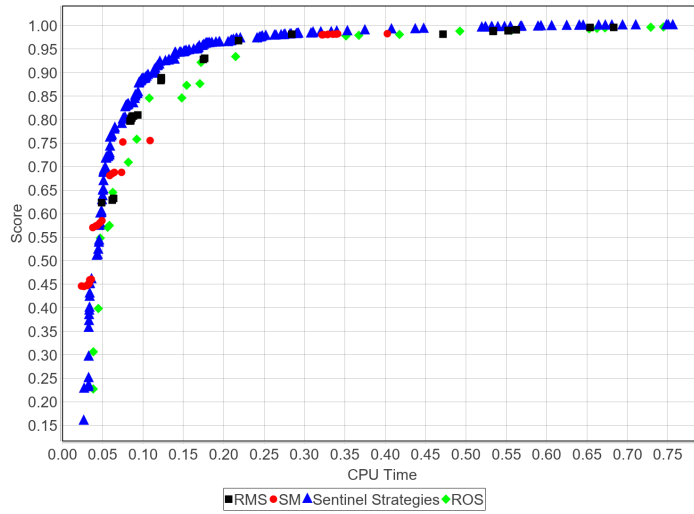


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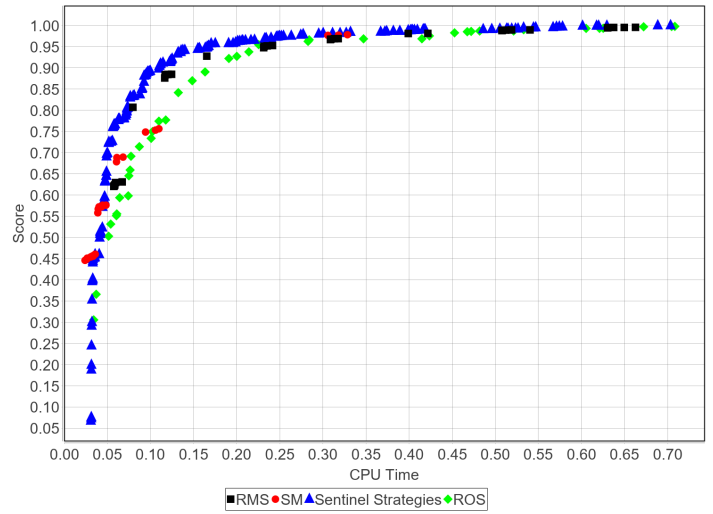


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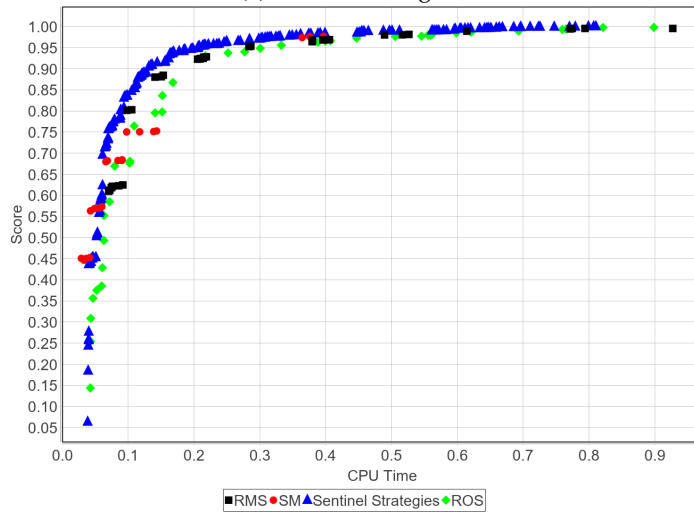
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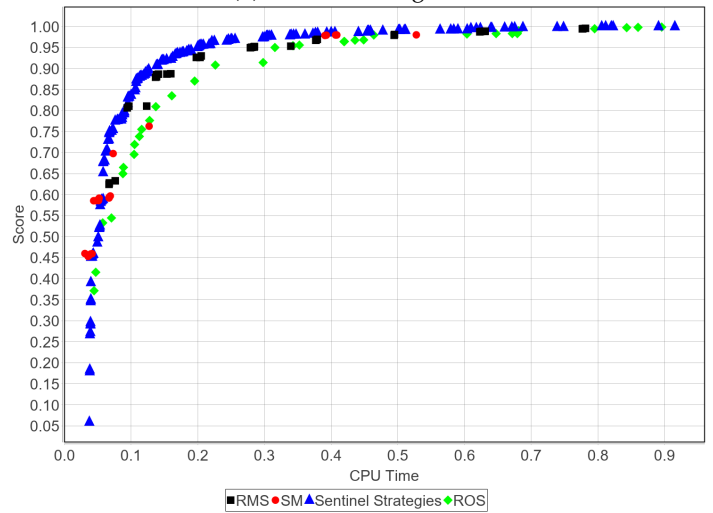
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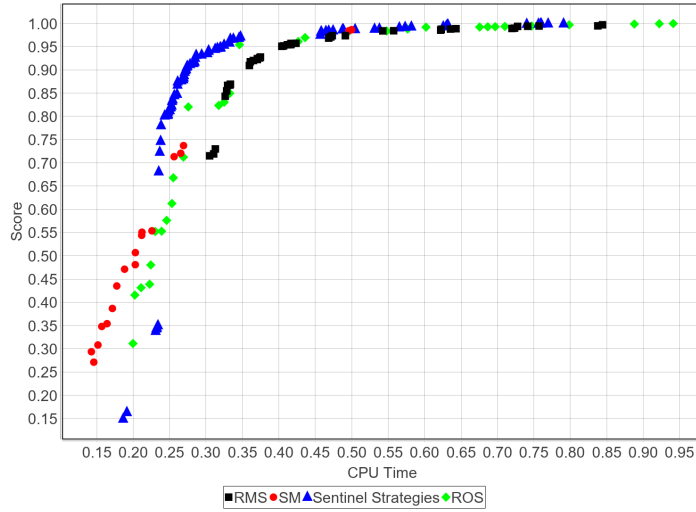


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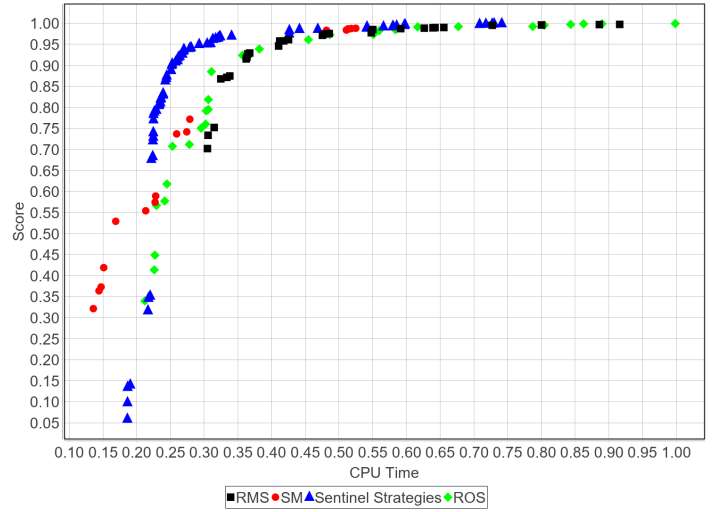


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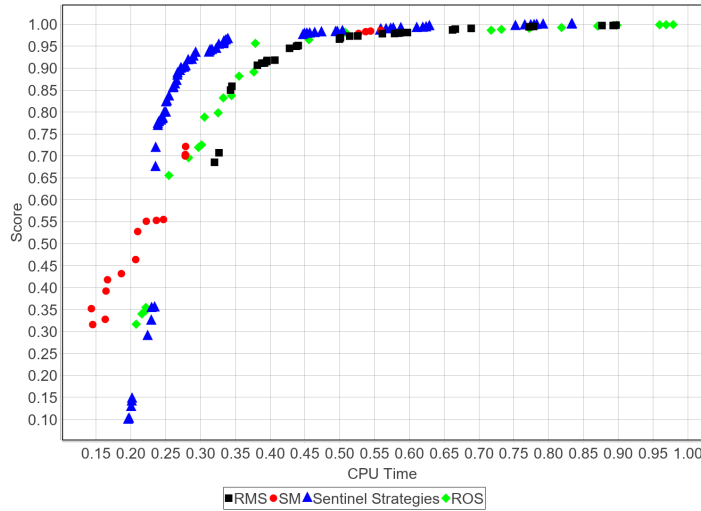
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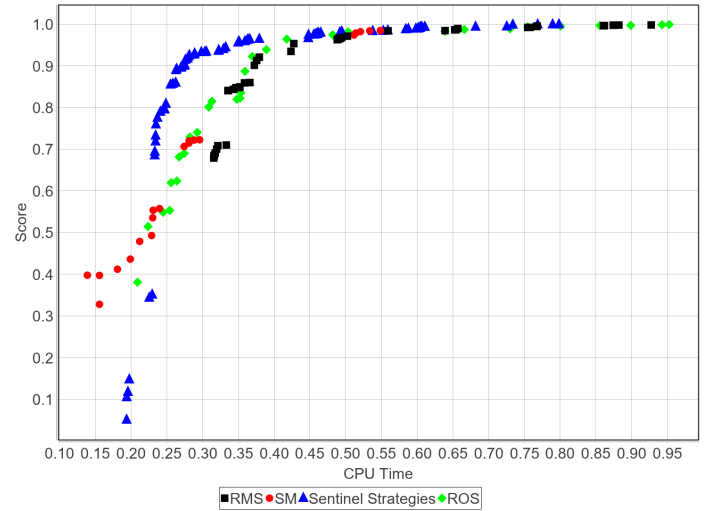
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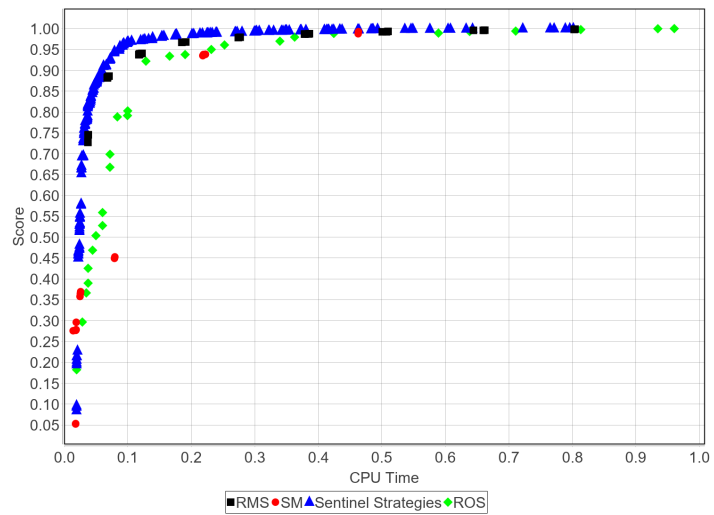


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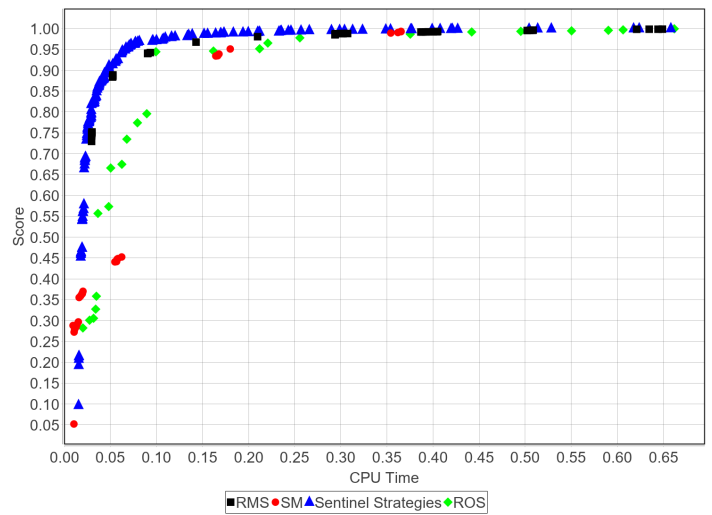


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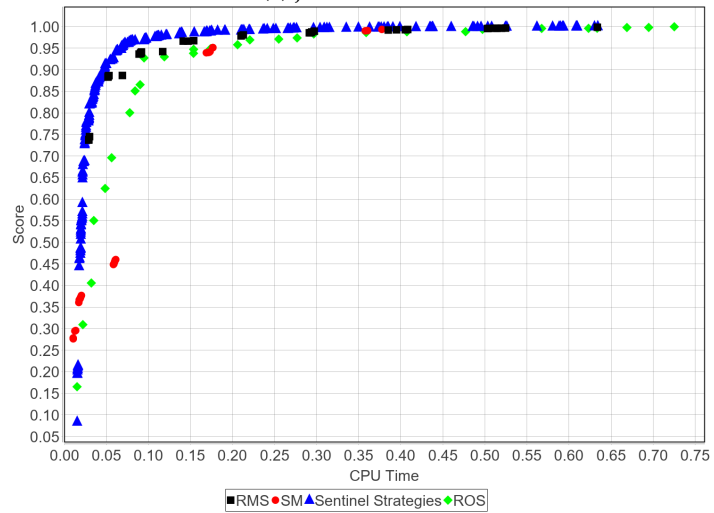
7 JFREECHART



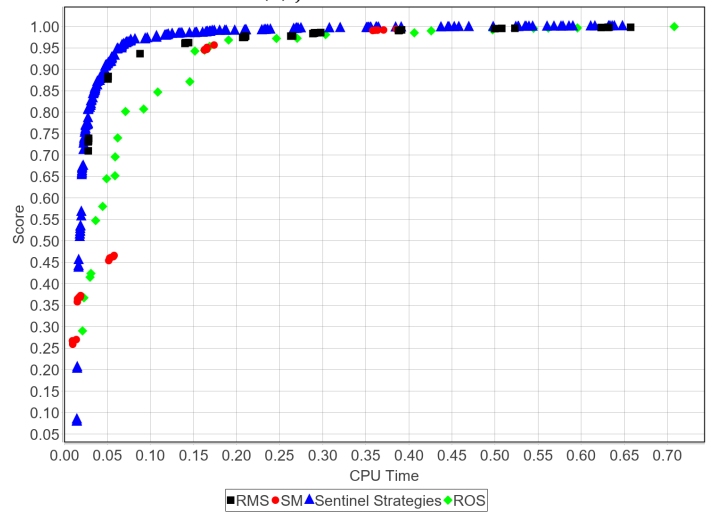
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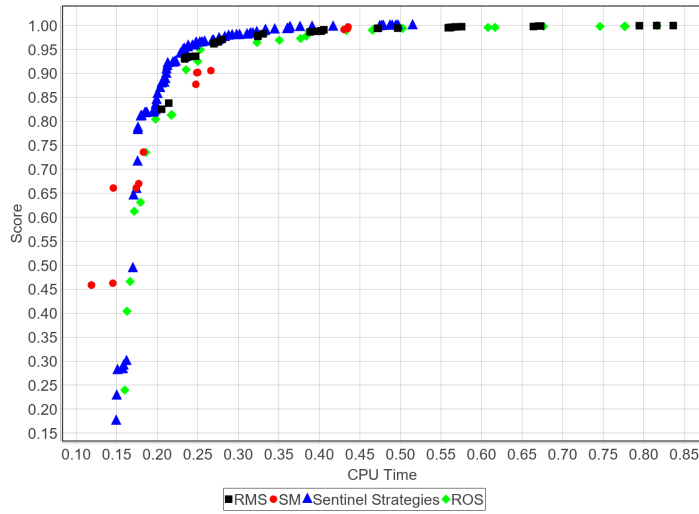


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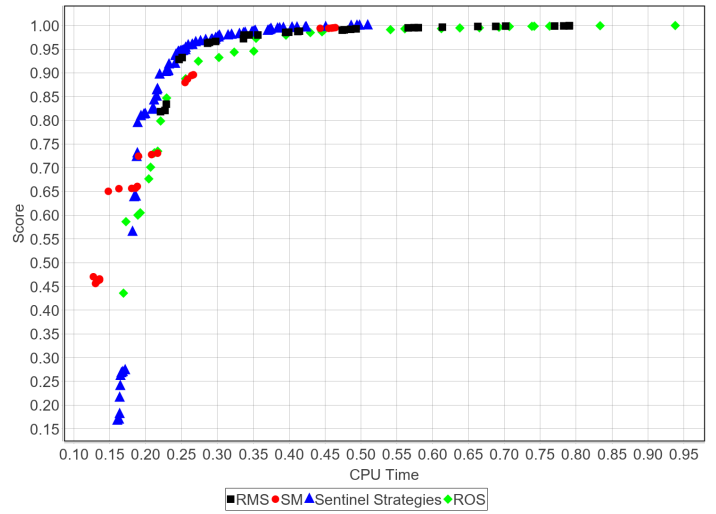


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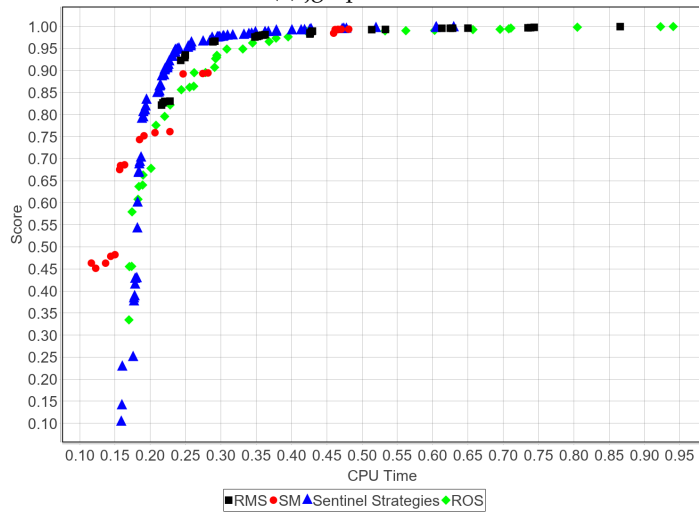
8 JGRAPHPT



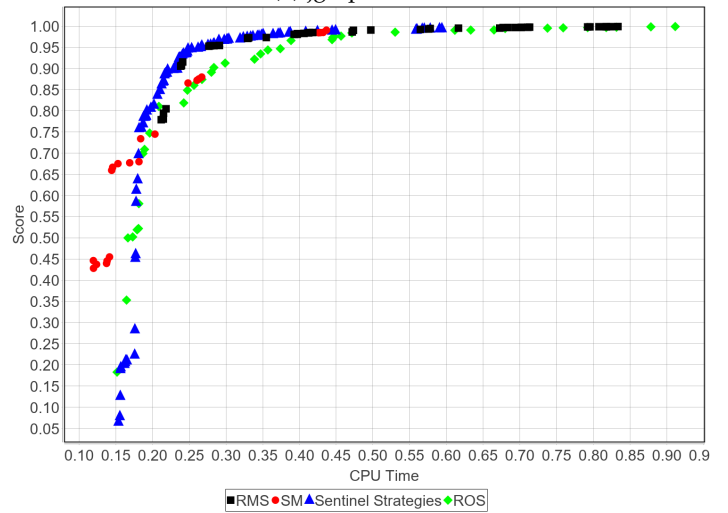
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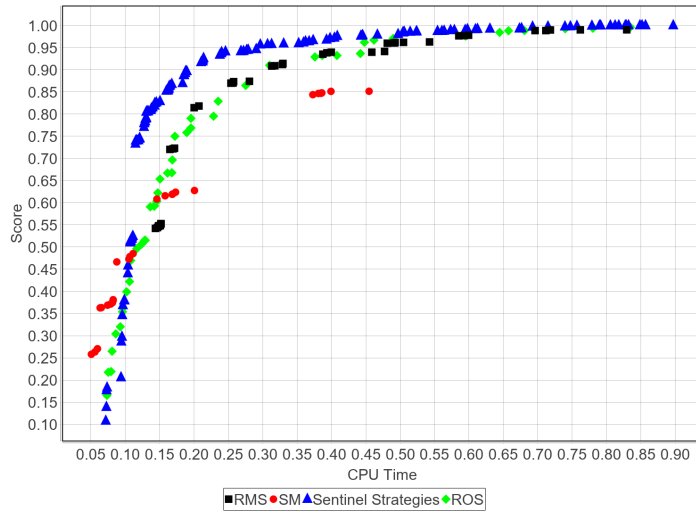


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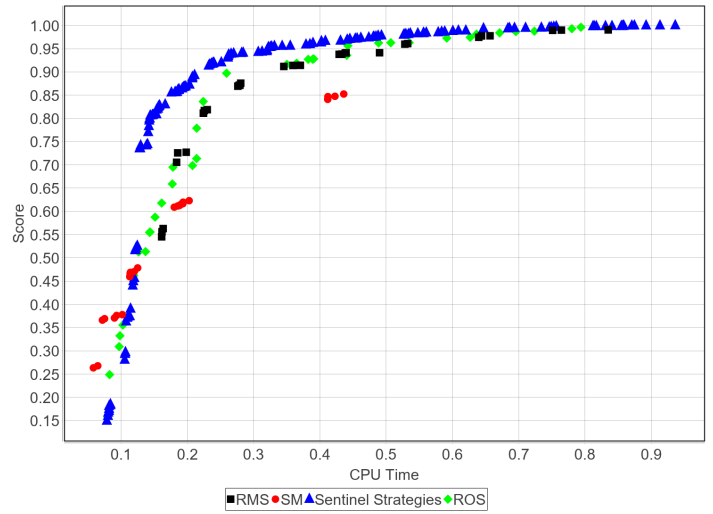


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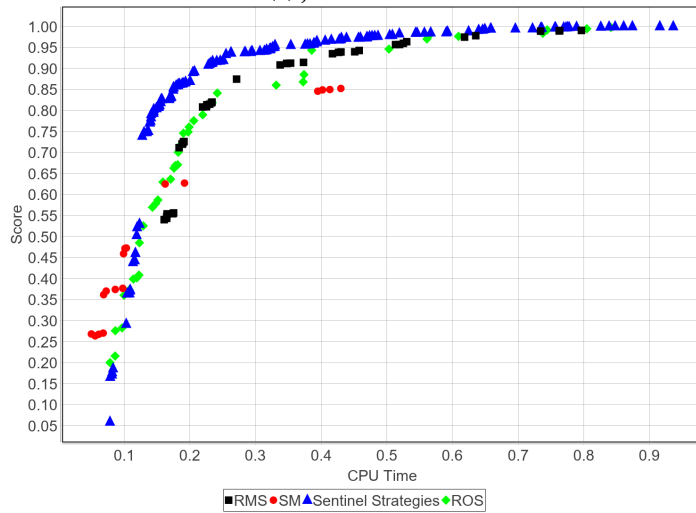
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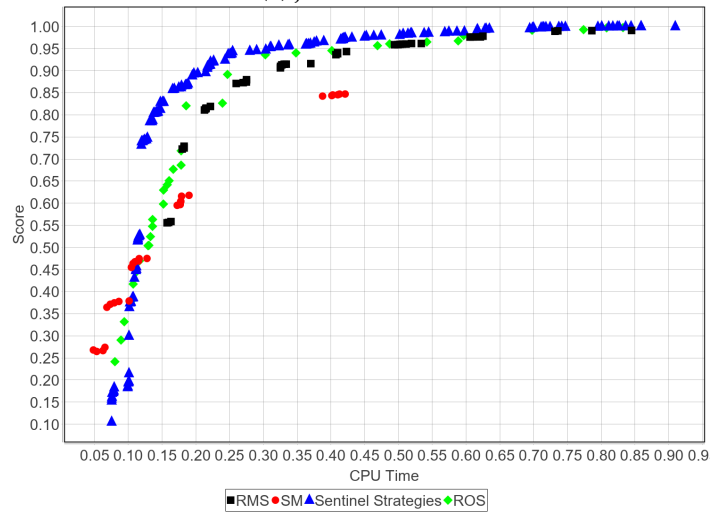
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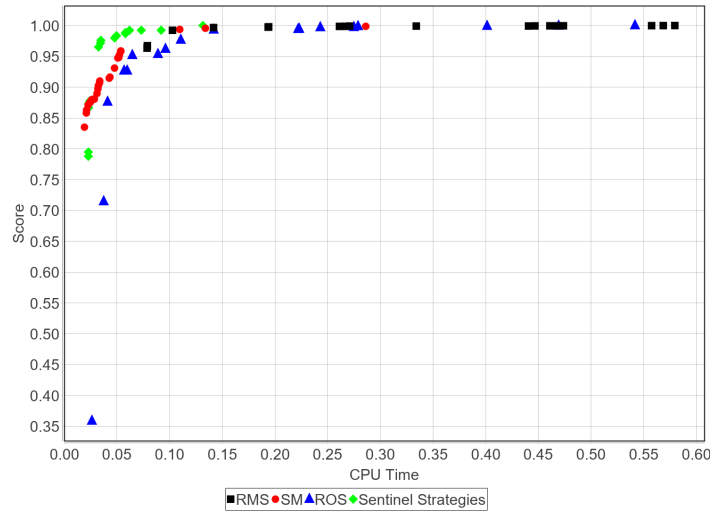


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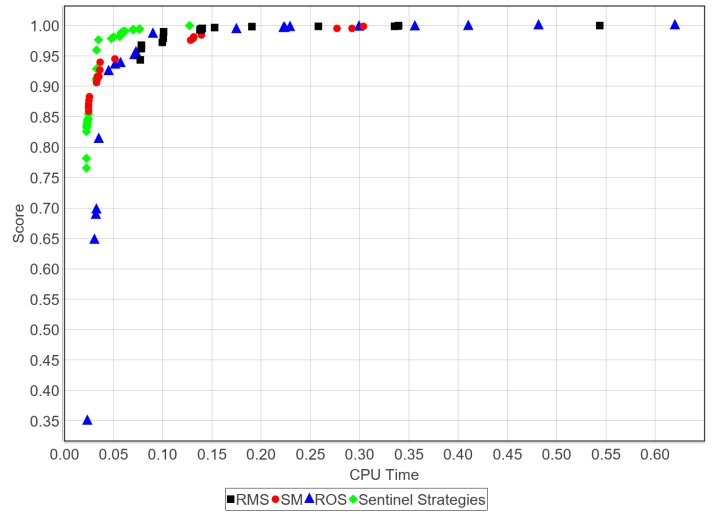


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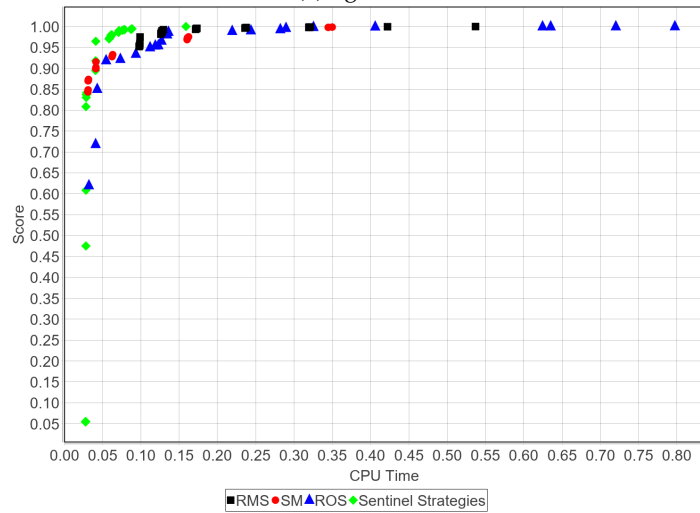
10 OGNL



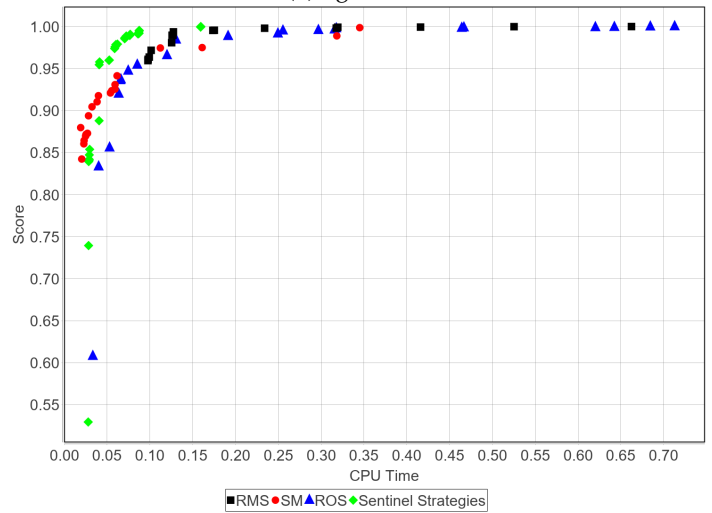
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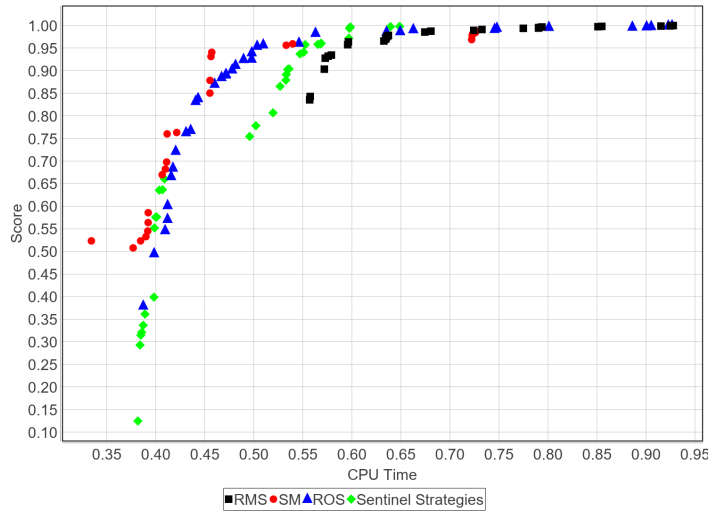


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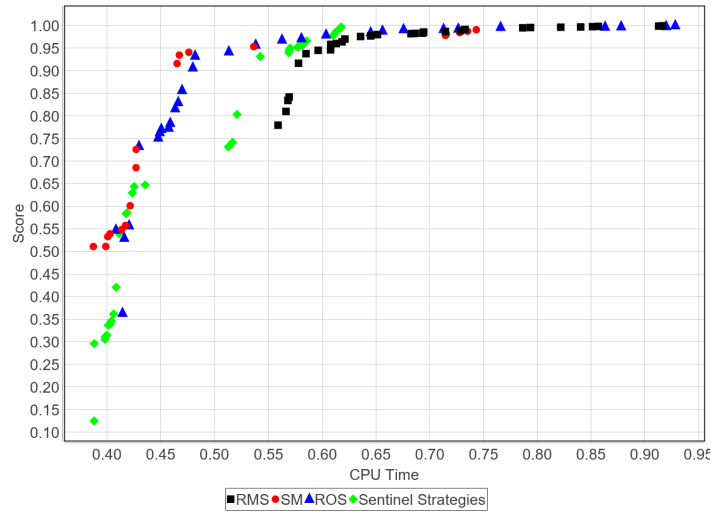


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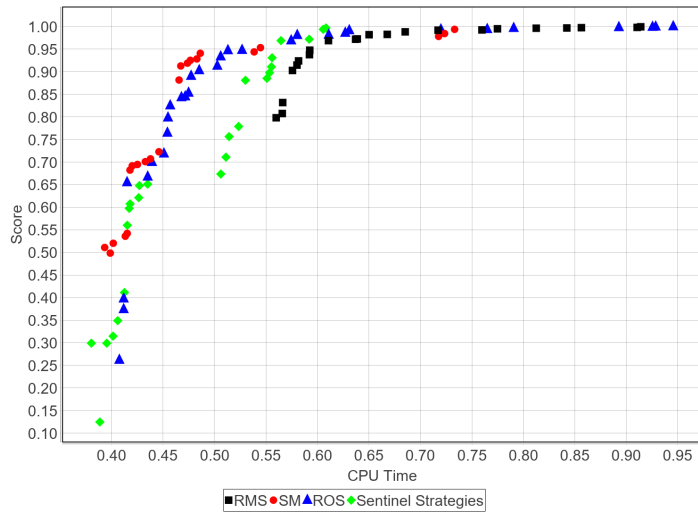
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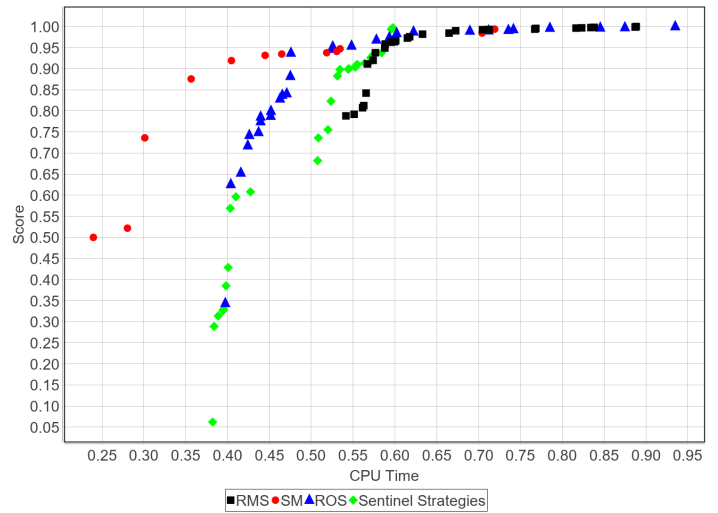
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(c) wire-2.0.2



(d) wire-2.0.3