

Connectors: Refinement and test case generation using Z3

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1 Preliminaries

1.1 The coordination language Reo

1.2 Z3

2 Modeling Connectors

2.1 Basic connectors

2.2 Timer connectors

2.3 Probabilistic connectors

2.4 Composing connectors

2.5 Refinement of connectors

3 Refinement checking and test case generation in Z3

3.1 Test case for connectors

3.2 Refinement checking

References

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