

Digraph decompositions and algorithms

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We will discuss the parameterized complexity of model-checking modal mu-calculus on sigma-transition systems. Several digraph-decompositions of the transition systems will be presented together with their associated cops-and-robber games.

The known results for these parameterizations will be put into perspective w.r.t. interrelations between the parameters and the rules for their cops-and-robber games.