

Fighting the Clocks Explosion

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► **To cite this version:**

Oded Maler. Fighting the Clocks Explosion. Automatic Verification of Critical Systems, Sep 2006, Nancy/France, pp.4. inria-00091658

HAL Id: inria-00091658

<https://hal.inria.fr/inria-00091658>

Submitted on 6 Sep 2006

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Fighting the Clocks Explosion

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Abstract

In this talk I will survey several heroic as well as pathetic attempts to fight the clock explosion problem, that is, to find ways to scale-up the automated analysis of timed automata beyond toy problems. The survey will be biased toward efforts I was involved in and will include directions such as BDDs and canonical representations, discretization, search-based techniques, SAT and bounded model-checking, abstraction and partial-order methods. I will also explain why I think this battle is important.

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