

Reconstructing the rules of 1D cellular automata using closure systems

José L. Balcázar, Gemma C. Garriga, and Pablo Díaz-López

LARCA Research Group
Departament de Llenguatges i Sistemes Informàtics
Universitat Politècnica de Catalunya
Campus Nord, Jordi Salgado 1-3
08034 Barcelona, Spain
{balqui, gcasas, pdiaz}@lsi.upc.edu



@misc{Garriga_,
author = {Garriga, C., Gemma}
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Abstract. We consider the problem of identifying the rules conforming the local map of a cellular automaton; we explore the capabilities of a closure-based algorithm for this task. The algorithm has been previously proven to identify an optimal Horn-like formula true for the $\lfloor \cdot \rfloor$