

# A Filter of Dynamical Cycles for a Class of Boolean Networks

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## **Abstract**

We study the dynamical behavior of Boolean Networks. In particular, we are interested in the fixed points of the network. Given a Boolean Network with balanced graph and  $n$  variables, we present an algorithm that allows in time  $O(n^2)$  to find a Boolean Network with the same fixed points than the original one, and such that they are reached in at most  $n$  updates.