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Modelling with Cellular Automata: Problem Solving Environments and Multidimensional Applications

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor
aan de Universiteit van Amsterdam
op gezag van de Rector Magnificus
prof. dr. D.C. van den Boom
ten overstaan van een door het college voor promoties
ingestelde commissie,
in het openbaar te verdedigen in de Agnietenkapel
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door

Lev Alexandrovich Naumov

geboren te Sint-Petersburg, Rusland

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Cover design represents a facetious stylization under iconic O'Reilly Media's "animal books" series. On the back cover you may see the structure generated by 1D cellular automaton with transition function number 30 from a single seed. Such structures will be discussed in Sect. 3.1.

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I know there are groups at the top of the charts that are hailed as the saviours of rock'n'roll and all that, but they are amateurs. They don't know where the music comes from. I wouldn't even think about playing music if I was born in these times... I'd probably turn to something like mathematics. That would interest me.

BOB DYLAN, "Chronicles"