

Preface

As far as I can think back, I have enjoyed playing all kind of games. A fascinating property of games is that with simple rules, very complex behavior can be created. This behavior includes facets such as long-term planning, tactical decisions and setting up traps for the opponent. Once people find a job, their interest in games makes place for a more serious life. This has not happened to me yet. I still enjoy playing games on a regular basis and have no intention in the near future to change this. Over the years, my game collection has grown quite a bit, and some of those games which I discovered, are made part of this thesis. I even managed to obtain the title of Dutch Board Game Champion in 2009. Therefore it seems adequate that I have chosen a profession where games play a central role. This thesis is a result of a 27 years fascination for games.

First of all, I would like to thank my daily supervisor Mark Winands for his stimulating efforts over the last years. He did not only channel my thoughts into scientific publications, but also helped me to avoid dangerous pitfalls in research. I also have to thank him for his endless patience and his deep knowledge on search methods. Next, many thanks go to my supervisor Jos Uiterwijk who gave me the opportunity to get acquainted to research in games for my Master's thesis. Without him I would not have continued my games research in the shape of a Ph.D. thesis. I also want to thank Gerhard Weiss, who agreed to be my promotor, and Lena Kurzen, who was my partner at the NWO TACTICS project. This project was headed by Prof. Dr. Johan van Benthem.

Moreover, I would like to thank all those people with whom I have collaborated over the past years. I enjoyed writing articles with Jaap van den Herik, Guillaume Chaslot, Maurice Bergsma, Huib Aldewereld, and Jan Stankiewicz. I also want to thank the following colleagues and friends for their inspiring discussions over the past years: Sander Bakkes, Jahn-Takeshi Saito, Nyree Lemmens, Steven de Jong, Michael Kaisers, Philippe Uyttendaele, Marc Ponsen, István Szita, Pim Nijssen, Gian Piero Favini, David Lupien St-Pierre, Laurens van der Maaten, Loes Braun, Sander Spek, Femke de Jonge, Hendrik Baier, Andra Waagmeester, Stijn Vanderlooy, Mandy Tak, Sander Arts and Jesper Mohnen. A special thanks goes to Peter Geurtz who was making sure that my experiments kept running on the cluster. I furthermore want to thank the secretaries Marijke Verheij and Joke Hellemons who helped me to find my way in the administrative labyrinth.

In order to be able to focus on work, you have to distract yourself from work regularly. Here I want to thank those people who helped me to recharge my batteries

from time to time. First I would like to thank the members of the Slimbo Spelgroep Limburg, especially Alex Peters, Juanita Vernooy, Pieter Spronck, Wim van Gruisen and Marcel Falise, for many nights full of new and exciting board games. Second, I would like to thank the many members of the student cycling association Dutch Mountains for many scenic hours in the Limburgian scenery. Third, I also thank Andreas Hofmann, Achim Hofmann, Raphaela Hofmann, Dirk Zander, Andreas Schebesta, Sarah Schebesta, Markus Stahl, Nico Simon and others for providing even more opportunities for distraction.

I want to thank my parents, Peter and Anneke, for allowing me to realize my own potential. Further thanks go to Frederik, Brigitte and Kurt for their support in my adventures. Na koniec chciałbym podziękować Klaudynie za jej miłość i troskę.

Maarten Schadd, 2010

Acknowledgments

The research has been carried out under the auspices of SIKS, the Dutch Research School for Information and Knowledge Systems. This research has been funded by the Netherlands Organisation for Scientific Research (NWO) in the framework of the project TACTICS, grant number 612.000.525.