Preface

The past four and a half years I have been a PhD student at the CWI in Amsterdam, with great pleasure. I have carried out my research in the group PNA1, which contains researchers from operations research as well as constraint programming. This turned out to be a fertile basis for my investigations on the combination of the two fields. My supervisor, Krzysztof Apt, was working on a somewhat different research topic. To illustrate this, we have not written a single joint paper in all those years, although this is probably also due to his ethical views on science. As a result, I have performed my research rather independently, which I have appreciated very much. Nevertheless, Krzysztof has supported and advised me in many different ways. I want to thank him for his guidance and, perhaps as important, confidence.

Krzysztof realized that a background in constraint programming and operations research alone is not necessarily sufficient to perform interesting research on their combination. Hence, I was sent to Bologna, to collaborate with an expert in the field: Michela Milano. I have visited Bologna several times, and these visits turned out to be very fruitful. Apart from the papers we have written together, Michela has also acted as a mentor in the research process. I believe that her influence has been very important for my development. For all this I am very grateful to her.

Another pleasant aspect of my visits to Bologna has been the "working environment". I am very thankful to Andrea Lodi, Andrea Roli, Paolo Torroni, and all other members of the Drunk Brain Band for their hospitality, company, and (in some cases) interesting discussions about research issues.

During the past year I have also successfully collaborated with Gilles Pesant and Louis-Martin Rousseau. I want to thank them for this experience and for hosting me for a month in Montreal. Further, I am thankful to Eric Monfroy for interesting discussions and a very enjoyable visit to Nantes. Many of the above visits would not have been possible without the support of the CWI, which I have very much appreciated.

At the CWI, I have benefited enormously from the seminars and the knowledge of the members of PNA1. I want to thank all of them, in particular Bert vi Preface

Gerards, Monique Laurent and Lex Schrijver, for their support. There are many other people that have made the CWI a stimulating and pleasant environment. Among them are Peter Zoeteweij, the members of PIMB (the CWI Christmas band), Pieter Jan 't Hoen, and last, but not least, Sebastian Brand, who has been an exemplary roommate.

Finally, I am very grateful to Aafke for her patience and support.

Amsterdam, March 2005

Willem-Jan van Hoeve