

Acknowledgements

So many people have made a significant contribution to this thesis in various ways. Although all of them provided me with valuable information, a few played a more direct role in the preparation of this thesis.

First of all, I extend my gratitude to my promotor, Mark Overmars, and my co-promotor, Otfried Cheong for their perfect supervision. During the writing of my Ph.D. thesis, Mark Overmars provided many corrections and suggestions for improvement of the manuscript, for which I'm grateful. I am deeply indebted to Otfried Cheong: When I was a M.Sc. student at POSTECH in Korea, he motivated me to do a Ph.D. in Computational Geometry and provided me an offer of being his first Ph.D. student. With unfailing courtesy and monumental patience, he have supervised me in a perfect way, in Hong Kong and the Netherlands.

I would also like to thank Siu-Wing Cheng and Mordecai Golin. Siu-Wing Cheng had advised me in various ways, and we had worked together on several problems. Mordecai Golin had showed me interesting geometry problems that I challenged to solve.

I should also thank René van Oostrum. When we were in Hong Kong, I learned from him how to develop films and print photographs. He also helped me a lot when I settled down to the life in the Netherlands, and translated "Summary" into Dutch for this thesis.

I must acknowledge my debt to the co-authors of the papers of which this thesis is composed: apart from Otfried Cheong, Siu-Wing Cheng and René van Oostrum, these are Mark de Berg, Prosenjit Bose, Dan Halperin, Jiří Matoušek, and Jack Snoeyink.

I am no less grateful to Prosenjit Bose, Siu-Wing Cheng, Jan van Leeuwen and Peter van Emde Boas, for taking place in the reviewing committee. Prosenjit Bose and Jan van Leeuwen made detailed comments on the manuscript, which have helped me very substantially with the preparation of this thesis.

It is with particular pleasure that I express my deeply-felt gratitude to Henk and Suze

Kroon. They provided us a comfortable and great place to stay while I and my wife were staying in the Netherlands.

There is not enough space to mention all my friends who indirectly contributed to this thesis, even if I had a complete record of their contributions.

Finally, my thanks to my wife, Yu-Jin Yi, and our unborn child for their support and tolerance during the writing of this thesis.