Acknowledgements

This thesis was prepared at the Department of Orthopaedics (head: prof. dr. R.G.H.H. Nelissen) under supervision of dr. ir. E.R. Valstar, head of the Biomechanics and Imaging group, of the Leiden University Medical Center.

I would like to express my sincere gratitude to Bart Kaptein who gave the fluoroscopy projects an extra impetus with his excellent accomplishments in developing the Model-based RSA software. His positive, can-do attitude was very motivating.

I am also indebted to many people who have contributed in some way to this thesis:

Jaap Harlaar and Caroline Doorenbosch (Vrije Universiteit Medical Center, Amsterdam), who made it possible for me to work in their fantastic gait lab.

Nienke, Sanne, Mirjam, Tessa, Liane, Caroline, and Willemijn of the Department of Human Movement Sciences, Vrije Universiteit Amsterdam, who made a considerable contribution to several projects within this thesis. Staff and residents from the Department of Orthopaedics for their clinical contributions. Staff and roentgen assistants from the Department of Radiology. Especially, Dirk Zweers and Koos Geleijns for their advice and assistance during the experimental and clinical fluoroscopy studies. Hans Fraterman, Arie de Vos and Bram Visser who have been extremely helpful for developing and manufacturing devices and experimental set-ups that have been used for this research project. Administrative staff of the Department of Orthopaedics for general assistance. My colleagues at Medis for making it possible to continue to work in a challenging environment.
Curriculum Vitae

Eric Garling was born on April 7, 1972 in Alkmaar, The Netherlands. After graduation from the 'Murmellius Gymnasium' in Alkmaar, he started his academic career with studying Public Administration at the Leiden University. In 1995, he made a career change in a life-science oriented direction and started studying Human Movement Sciences at the Vrije Universiteit of Amsterdam. He specialized in Human Movement in the context of Sports and Biomechanics. He carried out his Master of Science work under supervision of dr. ir. E.R. Valstar and dr. H.E.J. Veeger. The title of his master's thesis was Mobile bearing knee kinematics. After graduation in 1999, he began to work as a researcher in a number of projects at the Department of Orthopaedics of the Leiden University Medical Center (head: prof. dr. P.M. Rozen), which eventually evolved into this thesis. He currently holds a position at Medis medical imaging systems b.v. as a strategic account manager and at Medis specials b.v. as a business development manager.
Publications

Publications related to this thesis


Publications not related to this thesis


Publications


