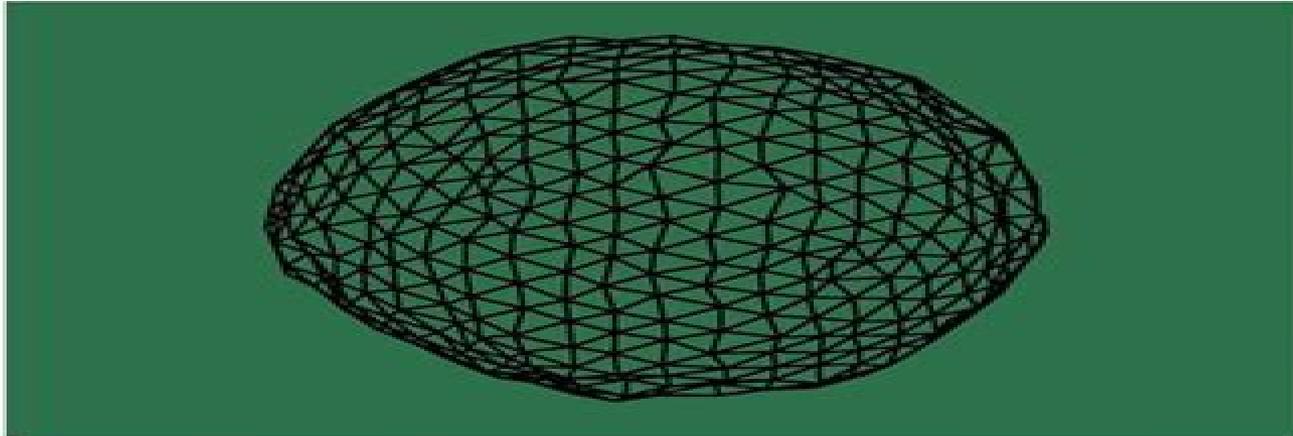

Bayesian Modeling of Uncertainty in Low-level Vision

Richard Szeliski

foreword by Takeo Kanade



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BMVC92 David Hogg, Roger Boyle, 2012-12-06. This book contains the 61 papers that were accepted for presentation at the 1992 British Machine Vision Conference. Together they provide a snapshot of current machine vision research throughout the UK in 24 different institutions. There are also several papers from vision groups in the rest of Europe, North America, and Australia. At the start of the book is an invited paper from the first keynote speaker, Robert Haralick. The quality of papers submitted to the conference was very high, and the programme committee had a hard task selecting around half for presentation at the meeting and inclusion in these proceedings. It is a positive feature of the annual BMV conference that the entire process, from the submission deadline through to the conference itself and publication of the proceedings, is completed in under 5 months. My thanks to members of the programme committee for their essential contribution to the success of the conference, and to Roger Boyle, Charlie Brown, Nick Efford, and Sue Nemes for their excellent local organisation and administration of the conference at the University of Leeds.

Computer Vision Richard Szeliski, 2022-01-03. *Computer Vision: Algorithms and Applications* explores the variety of techniques used to analyze and interpret images. It also describes challenging real-world applications where vision is being successfully used both in specialized applications such as image search and autonomous navigation, as well as for fun, consumer-level tasks that students can apply to their own personal photos and videos. More than just a source of recipes, this exceptionally authoritative and comprehensive textbook reference takes a scientific approach to the formulation of computer vision problems. These problems are then analyzed using the latest classical and deep learning models and solved using rigorous engineering principles.

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course in computer science or engineering this textbook focuses on basic techniques that work under real world conditions and encourages students to push their creative boundaries Its design and exposition also make it eminently suitable as a unique reference to the fundamental techniques and current research literature in computer vision

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Acoustic Signal Processing for Ocean Exploration J.M.F Moura, Isabel M.G. Lourtie, 2012-12-06 Acoustic Signal Processing for Ocean Exploration has two major goals i to present signal processing algorithms that take into account the models of acoustic propagation in the ocean and ii to give a perspective of the broad set of techniques problems and applications arising in ocean exploration The book discusses related issues and problems focused in model based acoustic signal processing methods Besides addressing the problem of the propagation of acoustics in the ocean it presents relevant acoustic signal processing methods like matched field processing array processing and localization and detection techniques These more traditional contexts are herein enlarged to include imaging and mapping and new signal representation models like time frequency and wavelet transforms Several applied aspects of these topics such as the application of acoustics to fisheries sea floor swath mapping by swath bathymetry and side scan sonar autonomous underwater vehicles and communications in underwater are also considered

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