



Visual Motion of Curves and Surfaces

By Roberto Cipolla, Peter Giblin

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The world is full of objects, many of which are visible to us as surfaces. Examples are people, cars, machines, computers and bananas. Exceptions are such things as clouds and trees, which have a more detailed, fuzzy structure. Computer vision aims to detect and reconstruct features of surfaces from the images produced by cameras, in some ways mimicking the way in which humans reconstruct features of the world around them by using their eyes. This book describes how the 3D shape of surfaces can be recovered from image sequences of outlines. Cipolla and Giblin provide all the necessary background in differential geometry (assuming knowledge of elementary algebra and calculus) and in the analysis of visual motion, and emphasizes intuitive visual understanding of the geometric techniques with computer-generated illustrations. They also give a thorough introduction to the mathematical techniques and the details of the implementations, and apply the methods to data from real images.

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Visual Motion of Curves and Surfaces By Roberto Cipolla, Peter Giblin Bibliography

- Sales Rank: #5187349 in Books
- Brand: Brand: Cambridge University Press
- Published on: 2009-08-06
- Original language: English
- Number of items: 1
- Dimensions: 9.61" h x .43" w x 6.69" l, .71 pounds
- Binding: Paperback
- 196 pages

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Review

"The geometry of curves and surfaces is described clearly, with wonderfully apropos figures and carefully consistent notation throughout....the material has a certain beauty to it, which they draw out nicely."

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