



# Fractal Geometry in Digital Imaging

*Martin J. Turner, Jonathan M. Blackledge, Patrick R. Andrews*

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**Fractal Geometry in Digital Imaging** Martin J. Turner, Jonathan M. Blackledge, Patrick R. Andrews

This book presents the analysis of textured images using fractal geometry, and discusses its application to imaging science and computer vision when modeling natural objects. The authors explore the methods which can be used to simulate, analyze, and interpret coherent images, and demonstrate a new approach which segments each image into regions of similarity that can be characterized by a random fractal with a given fractal dimension.

**Fractal Geometry in Digital Imaging** is based on a research project, but has been written with a broad coverage and user friendly math to make the book accessible to a wider audience. It includes real world experiences and applications using the techniques described.

- \* Discusses the analysis of textured images using fractal geometry
- \* Explores the methods used to simulate, analyze, and interpret coherent images
- \* Contains coverage of real world experiences and applications
- \* Written in a user friendly style

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