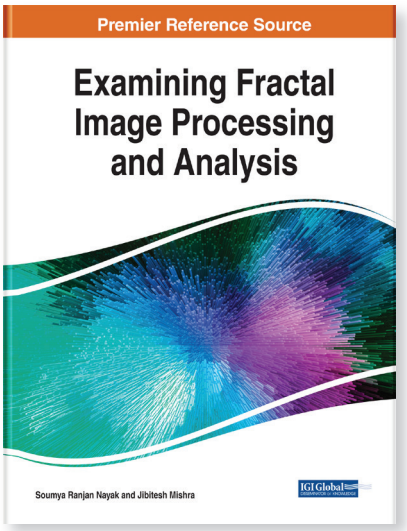
Examining Fractal Image Processing and Analysis



Part of the Advances in Computational Intelligence and Robotics Book Series

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Description:

Digital image processing is a field that is constantly improving. Gaining high-level understanding from digital images is a key requirement for computing. One aspect of study that is assisting with this advancement is fractal theory. This new science has gained momentum and popularity as it has become a key topic of research in the area of image analysis.

Examining Fractal Image Processing and Analysis is an essential reference source that discusses fractal theory applications and analysis, including box-counting analysis, multi-fractal analysis, 3D fractal analysis, and chaos theory, as well as recent trends in other soft computing techniques. Featuring research on topics such as image compression, pattern matching, and artificial neural networks, this book is ideally designed for system engineers, computer engineers, professionals, academicians, researchers, and students seeking coverage on problem-oriented processing techniques and imaging technologies.

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Topics Covered:

- Artificial Neural Networks
- Biomedical Image Processing
- Chaos Theory
- Color Imaging
- Computer Graphics Applications
- Fractal Information
- Future Trends
- Image Compression
- Image Models
- Pattern Matching

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