

## New Approaches in Intelligent Image Analysis: Techniques, Methodologies and Applications (Intelligent Systems Reference Library)

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This book presents an Introduction and 11 independent chapters, which are devoted to various new approaches of intelligent image processing and analysis. The book also presents new methods, algorithms and applied systems for intelligent image processing, on the following basic topics:

- Methods for Hierarchical Image Decomposition;
- Intelligent Digital Signal Processing and Feature Extraction;
- Data Clustering and Visualization via Echo State Networks;
- Clustering of Natural Images in Automatic Image Annotation Systems;
- Control System for Remote Sensing Image Processing;
- Tissue Segmentation of MR Brain Images Sequence;
- Kidney Cysts Segmentation in CT Images;
- Audio Visual Attention Models in Mobile Robots Navigation;
- Local Adaptive Image Processing;
- Learning Techniques for Intelligent Access Control;
- Resolution Improvement in Acoustic Maps.

Each chapter is self-contained with its own references. Some of the chapters are devoted to the theoretical aspects while the others are presenting the practical aspects and the analysis of the modeling of the developed algorithms in different application areas.



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