



# Shape Classification and Analysis: Theory and Practice, Second Edition (Image Processing Series)

*Luciano da Fona Costa, Jr., Roberto Marcond Cesar*

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## **Shape Classification and Analysis: Theory and Practice, Second Edition (Image Processing Series)**

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Because the properties of objects are largely determined by their geometric features, shape analysis and classification are essential to almost every applied scientific and technological area. A detailed understanding of the geometrical features of real-world entities (e.g., molecules, organs, materials and components) can provide important clues about their origin and function. When properly and carefully applied, shape analysis offers an exceedingly rich potential to yield useful applications in diverse areas ranging from material sciences to biology and neuroscience.

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The authors of **Shape Analysis and Classification: Theory and Practice, Second Edition** have improved the bestselling first edition by updating the tremendous progress in the field. This exceptionally accessible book presents the most advanced imaging techniques used for analyzing general biological shapes, such as those of cells, tissues, organs, and organisms. It implements numerous corrections and improvements—many of which were suggested by readers of the first edition—to optimize understanding and create what can truly be called an interactive learning experience.

*New Material in This Second Edition Addresses*

- Graph and complex networks

- Dimensionality reduction
- Structural pattern recognition
- Shape representation using graphs

Graphically reformulated, this edition updates equations, figures, and references, as well as slides that will be useful in related courses and general discussion. Like the popular first edition, this text is applicable to many fields and certain to become a favored addition to any library.

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