



# Morphological Image Analysis: Principles and Applications

By Pierre Soille

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From reviews of the first edition: "This is a scholarly tour de force through the world of morphological image analysis [...]. I recommend this book unreservedly as the best one I have encountered on this particular topic [...]"  
BMVA News

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## **Morphological Image Analysis: Principles and Applications By Pierre Soille Bibliography**

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### Editorial Review

#### Review

From the reviews:

*"This is a scholarly tour de force through the world of morphological image analysis, and, as its title indicates, it covers both the basic theory and the applications of the subject... All these concepts are well covered in this volume, with copious, very clear illustrations showing a myriad of images containing objects, textures and structures in both unprocessed and processed forms. Amongst the illustrations are also many useful diagrams, histograms, mappings and other mental aids. The subject is intricate and no stones are left unturned in explaining carefully what is meant, and relating the work to everyday experience. The author is clearly master of both the subject and its teaching ... I recommend this book unreservedly as the best one I have encountered on this particular topic..."* BMVA News

From the reviews of the second edition:

"Faced with the success of his book, the author felt the need to revise and expand it. ... There are more algorithms and more applications, several of them coming from the author's own work. Many added illustrations improve the understanding of morphological theory, and the bibliography at the end of each chapter has become impressive. ... As its first edition, this book should appeal ... to practitioners of image processing, who will find in it a wealth of efficient methods for various problems." (Christian Ronse, Mathematical Reviews, Issue 2004 c)

"This book puts the emphasis firmly on solving real world practical problems which arise in many image processing applications. ... It will be of most benefit to engineers and image processing specialists ... . Each chapter has several examples and there are a number of case studies. ... It is self-contained and aims to go well beyond an introduction ... . This is the second edition and there are a number of significant additions, which reflect the developments in the field ... ." (Stephen Marshall, IEE Proceedings Vision, Image & Signal Processing, September, 2003)

"A very readable book for newcomers, written in an accessible style. ... The present work is ... much more than an introduction to the subject and it is very useful to have essays on so many branches of the subject united in a single volume. ... This in no way detracts from the value of the book for readers already familiar with the basic structure of mathematical morphology, to whom it is highly recommended." (Ultramicroscopy, Vol. 116, 2012)

#### Language Notes

Text: English (translation)

Original Language: German

#### From the Back Cover

Following the success of the first edition, recent developments in the field of morphological image analysis called for an extended second edition. The text has been fully revised with the goal of improving its clarity

while introducing new concepts of interest to real image analysis applications. One chapter devoted to texture analysis has been added. Main extensions include: discussion about multichannel images and their morphological processing, ordering relations on image partitions, connected operators and levellings, homotopy for greytone images, translation-invariant implementations of erosions and dilations by line segments, reinforced emphasis on rank-based morphological operators, grey tone hit-or-miss, ordered independent homotopic thinnings and anchored skeletons, self-dual geodesic transformation and reconstruction, area based self-dual filters, anti-centre, watershed-based texture segmentation, texture models, and new scientific and industrial applications.

## **Users Review**

### **From reader reviews:**

#### **James Snyder:**

This book untitled Morphological Image Analysis: Principles and Applications to be one of several books which best seller in this year, here is because when you read this reserve you can get a lot of benefit into it. You will easily to buy that book in the book retail outlet or you can order it via online. The publisher of this book sells the e-book too. It makes you more easily to read this book, since you can read this book in your Smartphone. So there is no reason for you to past this publication from your list.

#### **Elizabeth Brown:**

Reading a book tends to be new life style in this era globalization. With reading you can get a lot of information that may give you benefit in your life. Using book everyone in this world can easily share their idea. Books can also inspire a lot of people. A lot of author can inspire their own reader with their story or their experience. Not only situation that share in the ebooks. But also they write about advantage about something that you need example of this. How to get the good score toefl, or how to teach children, there are many kinds of book which exist now. The authors on this planet always try to improve their ability in writing, they also doing some exploration before they write to the book. One of them is this Morphological Image Analysis: Principles and Applications.

#### **Amos Curley:**

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#### **Lourdes Tyner:**

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share. You can find a lot of references to get information example: internet, newspapers, book, and soon. You can see that now, a lot of publisher this print many kinds of book. The particular book that recommended for your requirements is Morphological Image Analysis: Principles and Applications this publication consist a lot of the information in the condition of this world now. This specific book was represented how does the world has grown up. The dialect styles that writer require to explain it is easy to understand. Often the writer made some analysis when he makes this book. Here is why this book appropriate all of you.

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