Analysis of Variance in Statistical Image Processing (Paperback)

By Ludwik Kurz, M. Hafed Benteftifa

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2006. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.A key problem in practical image processing is that of detecting certain features in a noisy image. Analysis of variance (ANOVA) techniques can be very effective in such situations, and this book gives a detailed account of the use of ANOVA in statistical image processing. The book begins by describing the statistical representation of images in the various ANOVA models. A number of computationally efficient algorithms and techniques are then presented, to deal with such problems as line, edge and object detection, as well as image restoration and enhancement. By describing the basic principles of these techniques, and showing their use in specific situations, the book will facilitate the design of new algorithms for particular applications. It will be of great interest to graduate students and engineers in the field of image processing and pattern recognition.

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