Record Nr. UNINA9910739472203321 Autore Frery Alejandro C Titolo Introduction to image processing using R: learning by examples // Alejandro C. Frery, Talita Perciano London;; New York,: Springer, c2013 Pubbl/distr/stampa **ISBN** 1-299-33601-9 1-4471-4950-5 Edizione [1st ed. 2013.] Descrizione fisica 1 online resource (xv, 87 pages): illustrations (some color) Collana SpringerBriefs in Computer Science, , 2191-5768 Altri autori (Persone) PercianoTalita Disciplina 519.50285 519.50285/5133 Soggetti R (Computer program language) Image processing Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia "ISSN: 2191-5768." Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Definitions and Notation -- Image Data Formats and Color Representation -- Reading and Writing Images with R: Generating High Quality Output -- Contrast Manipulation -- Filters in the Image Domain -- Contrast Enhancement and Dimensionality Reduction by Principal. Sommario/riassunto This book introduces the statistical software R to the image processing community in an intuitive and practical manner. R brings interesting statistical and graphical tools which are important and necessary for image processing techniques. Furthermore, it has been proved in the literature that R is among the most reliable, accurate and portable statistical software available. Both the theory and practice of R code concepts and techniques are presented and explained, and the reader is encouraged to try their own implementation to develop faster, optimized programs. Those who are new to the field of image processing and to R software will find this work a useful introduction.

By reading the book alongside an active R session, the reader will experience an exciting journey of learning and programming.