1. Record Nr. UNINA9910270927203321

Autore	Zhao Li
Titolo	Architecture-aware optimization strategies in real-time image processing / / Li Chao, Balla-Arabe Souleymane, Yang-Song Fan
Pubbl/distr/stampa	London, [England] ; ; Hoboken, New Jersey : , : ISTE : , : Wiley, , 2017 ©2017
ISBN	1-119-46712-8 1-119-46714-4 1-119-46724-1
Edizione	[1st edition]
Descrizione fisica	1 online resource (1 volume) : illustrations
Collana	Digital signal and image processing series
Disciplina	621.367
Soggetti	Image processing - Digital techniques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	In the field of image processing, many applications require real-time execution, particularly those in the domains of medicine, robotics and transmission, to name but a few. Recent technological developments have allowed for the integration of more complex algorithms with large data volume into embedded systems, in turn producing a series of new sophisticated electronic architectures at affordable prices. This book performs an in-depth survey on this topic. It is primarily written for those who are familiar with the basics of image processing and want to implement the target processing design using different electronic platforms for computing acceleration. The authors present techniques and approaches, step by step, through illustrative examples. This book is also suitable for electronics/embedded systems engineers who want to consider image processing applications as sufficient imaging algorithm details are given to facilitate their understanding.