1. Record Nr. UNINA9910337656803321

Autore	Gong Shengrong
Titolo	Advanced Image and Video Processing Using MATLAB / / by Shengrong Gong, Chunping Liu, Yi Ji, Baojiang Zhong, Yonggang Li, Husheng Dong
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-319-77223-6
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (596 pages)
Collana	Modeling and Optimization in Science and Technologies, , 2196-7326 ; ; 12
Disciplina	621.367
Soggetti	Signal processing Image processing Speech processing systems Optical data processing Computer science - Mathematics Signal, Image and Speech Processing Computer Imaging, Vision, Pattern Recognition and Graphics Computational Science and Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction and Overview -- Matlab Functions of Image and Video -- Image and Video Segmentation -- Feature Extraction and Representation -- Common Evaluation Criterion -- Image Correction -- Image Inpainting -- Fusions -- Image Stitching -- Image Watermarking.
Sommario/riassunto	This book offers a comprehensive introduction to advanced methods for image and video analysis and processing. It covers deraining, dehazing, inpainting, fusion, watermarking and stitching. It describes techniques for face and lip recognition, facial expression recognition, lip reading in videos, moving object tracking, dynamic scene classification, among others. The book combines the latest machine learning methods with computer vision applications, covering topics such as event recognition based on deep learningdynamic scene classification based on topic model, person re-identification based on

metric learning and behavior analysis. It also offers a systematic introduction to image evaluation criteria showing how to use them in different experimental contexts. The book offers an example-based practical guide to researchers, professionals and graduate students dealing with advanced problems in image analysis and computer vision.