1. Record Nr.	UNINA9910299743103321
Autore	Al Najjar Mayssaa
Titolo	Video surveillance for sensor platforms : algorithms and architectures / / Mayssaa Al Najjar, Milad Ghantous, Magdy Bayoumi
Pubbl/distr/stampa	New York : , : Springer, , 2014
ISBN	1-4614-1857-7
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (xv, 202 pages) : illustrations (some color)
Collana	Lecture Notes in Electrical Engineering, , 1876-1100 ; ; 114
Disciplina	621.3819 621.38928
Soggetti	Image processing - Digital techniques Video surveillance Sensor networks Image analysis Electrical engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"ISSN: 1876-1100."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Visual Sensor Nodes -- Image Registration -- Image Fusion -- Object Detection -- Object Tracking -- Hysteresis Thresholding -- Hardware Architecture Assist for Critical Components -- Conclusion.
Sommario/riassunto	This book introduces resource aware image decomposition, registration, fusion, object detection and tracking algorithms along with their applications in security, monitoring and integration in 3rd Generation Surveillance Systems. All algorithms are evaluated through experimental and simulation results and a parallel and pipelined efficient architecture for implementing the algorithms is described. • Describes a new type of image processing algorithms that are suited for low power and low memory platforms such as wireless sensor networks or mobile devices; • Uses simulation and experimental results to evaluate algorithms presented; • Includes hardware architecture for critical components in the algorithms described.