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ISBN	1-59693-288-0
Descrizione fisica	1 online resource (322 p.)
Collana	Artech House optoelectronics series
Altri autori (Persone)	DriggersRonald G JacobsEddie Lynn
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Soggetti	Imaging systems Signal processing Image processing Optical data processing Optoelectronics Electronic books.
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Imaging systems -- Target acquisition and image quality -- Basic principles of signal and image processing -- Image resampling -- Super-resolution -- Image deblurring -- Image contrast enhancement -- Nonuniformity correction -- Tone scale -- Image fusion.
Sommario/riassunto	From image resampling to image fusion, this hands-on book brings a wealth of cutting-edge signal and image processing tools into focus. You get step-by-step details on a super-resolution image reconstruction methods that produces superior high-resolution images from low-cost, low-resolution video. You discover an image deblur/restoration technique that works even in the presence of high noise. The book includes contrast enhancement tools for generating the highest-contrast images in low-light situations, as well as non-uniformity correction (NUC) methods that most effectively reduce fixed-pattern noise from the imaging sensor. What's more, the book presents a special tone scale technique that creates the best image

presentation whether on-screen or in print. You also find powerful image fusion techniques for improving such tasks as target recognition and identification. This well-illustrated book is supported with nearly 350 time-saving equations.
