

1. Record Nr.	UNINA9910437570903321
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Titolo	Industrial image processing : visual quality control in manufacturing // Christian Demant, Bernd Streicher-Abel, Carsten Garnica
Pubbl/distr/stampa	Heidelberg [Germany] : , : Springer, , 2013
ISBN	3-642-33905-0
Edizione	[2nd ed. 2013.]
Descrizione fisica	1 online resource (xvii, 369 pages) : illustrations (some color)
Collana	Gale eBooks
Disciplina	004 006.37 006.6 621.382
Soggetti	Quality control - Optical methods Image processing - Digital techniques Optical pattern recognition Neural networks (Computer science)
Lingua di pubblicazione	Inglese
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 -- Overview: Image Preprocessing -- Positioning -- Overview: Segmentation -- Mark Identification -- Overview: Classification -- Dimensional Checking -- Overview: Image Acquisition and Illumination -- Presence Verification -- Overview: Object Features -- Outlook: Visual Inspection Projects -- A: Mathematical Notes -- B: The Companion CD -- References -- Index.
Sommario/riassunto	This practical introduction focuses on how to design integrated solutions for industrial vision tasks from individual algorithms. The book is now available in a revised second edition that takes into account the current technological developments, including camera technology and color imaging processing. It gives a hands-on guide for setting up automated visual inspection systems using real-world examples and the NeuroCheck® standard software that has proven industrial strength integrated in thousands of applications in real-world production lines. Based on many years of experience in industry, the authors explain all the essential details encountered in the creation of vision system installations. With example material and a demo

version of the software found on "extras.springer.com" readers can work their way through the described inspection tasks and carry out their own experiments.
