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Autore	Cyganek Bogusaw
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Altri autori (Persone)	SiebertJ. Paul
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Soggetti	Computer vision Three-dimensional imaging Computer algorithms
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Nota di bibliografia	Includes bibliographical references (p. [459]-474) and index.
Nota di contenuto	AN INTRODUCTION TO 3D COMPUTER VISION TECHNIQUES AND ALGORITHMS; Contents; Preface; Acknowledgements; Notation and Abbreviations; Part I; 1 Introduction; 2 Brief History of Research on Vision; Part II; 3 2D and 3D Vision Formation; 4 Low-level Image Processing for Image Matching; 5 Scale-space Vision; 6 Image Matching Algorithms; 7 Space Reconstruction and Multiview Integration; 8 Case Examples; Part III; 9 Basics of the Projective Geometry; 10 Basics of Tensor Calculus for Image Processing; 11 Distortions and Noise in Images; 12 Image Warping Procedures 13 Programming Techniques for Image Processing and Computer Vision 14 Image Processing Library; References; Index; Colorplate
Sommario/riassunto	Computer vision encompasses the construction of integrated vision systems and the application of vision to problems of real-world importance. The process of creating 3D models is still rather difficult, requiring mechanical measurement of the camera positions or manual alignment of partial 3D views of a scene. However using algorithms, it

is possible to take a collection of stereo-pair images of a scene and then automatically produce a photo-realistic, geometrically accurate digital 3D model. This book provides a comprehensive introduction to the methods, theories and algorithms of 3D com

2. Record Nr.	UNINA9910557234703321
Autore	Gosseries Olivia
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Descrizione fisica	1 electronic resource (194 p.)
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Sommario/riassunto	This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact
