Record Nr.	UNINA9910830734503321
Autore	Cyganek Bogusaw
Titolo	An introduction to 3D computer vision techniques and algorithms [[electronic resource] /] / Bogusaw Cyganek, J. Paul Siebert
Pubbl/distr/stampa	Chichester, U.K., : John Wiley & Sons, 2009
ISBN	1-119-96447-4 1-282-03422-7 9786612034220 0-470-69972-8 0-470-71444-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (514 p.)
Altri autori (Persone)	SiebertJ. Paul
Disciplina	006.3/7 006.37
Soggetti	Computer vision Three-dimensional imaging Computer algorithms
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 (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 Vision14 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.

1.

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