

1. Record Nr.	UNINA9910131503903321
Titolo	Image, video & 3D data registration : medical, satellite and video processing applications with quality metrics / / Vasileios Argyriou [and three others]
Pubbl/distr/stampa	Chichester, England : , : Wiley, , 2015 ©2015
ISBN	1-118-70243-3 1-118-70245-X 1-118-70244-1
Descrizione fisica	1 online resource (248 p.)
Disciplina	006.6/93
Soggetti	Image registration Three-dimensional imaging
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 at the end of each chapters and index.
Nota di contenuto	""Cover""; ""Title Page""; ""Copyright""; ""Contents""; ""Preface""; ""Acknowledgements""; ""Chapter 1 Introduction""; ""1.1 The History of Image Registration""; ""1.2 Definition of Registration""; ""1.3 What is Motion Estimation""; ""1.4 Video Quality Assessment""; ""1.5 Applications"" ""1.5.1 Video Processing""""1.5.2 Medical Applications"; ""1.5.3 Security Applications""; ""1.5.4 Military and Satellite Applications""; ""1.5.5 Reconstruction Applications""; ""1.6 Organization of the Book""; ""References""; ""Chapter 2 Registration for Video Coding""; ""2.1 Introduction"" ""2.2 Motion Estimation Technique""""2.2.1 Block-Based Motion Estimation Techniques""; ""2.3 Registration and Standards for Video Coding""; ""2.3.1 H.264""; ""2.3.2 H.265""; ""2.4 Evaluation Criteria""; ""2.4.1 Dataset""; ""2.4.2 Motion-Compensated Prediction Error (MCPE) in dB"" ""2.4.3 Entropy in bpp""""2.4.4 Angular Error in Degrees""; ""2.5 Objective Quality Assessment""; ""2.5.1 Full-Reference Quality Assessment""; ""2.5.2 No-Reference and Reduced-Reference Quality

Metrics"; "2.5.3 Temporal Masking in Video Quality Assessment";  
"2.6 Conclusion"  
"2.7 Exercises""References"; "Chapter 3 Registration for Motion  
Estimation and Object Tracking"; "3.1 Introduction"; "3.1.1  
Mathematical Notation"; "3.2 Optical Flow"; "3.2.1 Horn-Schunk  
Method"; "3.2.2 Lukas-Kanade Method"  
"3.2.3 Applications of Optical Flow for Motion Estimation"

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Sommario/riassunto

"This book is focused on providing algorithms and image and video techniques for registration and quality performance metrics. The authors provide various assessment metrics for measuring registration quality alongside analyses of registration techniques, introducing and explaining both familiar and state-of-the-art registration methodologies used in a variety of targeted applications"--

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