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	Titolo	Dense Image Correspondences for Computer Vision / / edited by Tal Hassner, Ce Liu
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
	ISBN	3-319-23048-4
	Edizione	[1st ed. 2016.]
	Descrizione fisica	1 online resource (302 p.)
	Disciplina	620
	Soggetti	Signal processing
		Image processing
		Speech processing systems
		Optical data processing
		Artificial intelligence
		Electrical engineering
		Signal, Image and Speech Processing
		Image Processing and Computer Vision
		Artificial Intelligence
		Communications Engineering, Networks
	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.
	Nota di contenuto	Introduction to Dense Optical Flow -- SIFT Flow: Dense Correspondence across Scenes and its Applications -- Dense, Scale-Less Descriptors -- Scale-Space SIFT Flow -- Dense Segmentation-aware Descriptors -- SIFTpack: A Compact Representation for Efficient SIFT Matching -- In Defense of Gradient-Based Alignment on Densely Sampled Sparse Features -- From Images to Depths and Back -- DepthTransfer: Depth Extraction from Video Using Non-parametric Sampling -- Joint Inference in Image Datasets via Dense Correspondence -- Dense Correspondences and Ancient Texts.
	Sommario/riassunto	This book describes the fundamental building-block of many new computer vision systems: dense and robust correspondence estimation. Dense correspondence estimation techniques are now successfully

being used to solve a wide range of computer vision problems, very different from the traditional applications such techniques were originally developed to solve. This book introduces the techniques used for establishing correspondences between challenging image pairs, the novel features used to make these techniques robust, and the many problems dense correspondences are now being used to solve. The book provides information to anyone attempting to utilize dense correspondences in order to solve new or existing computer vision problems. The editors describe how to solve many computer vision problems by using dense correspondence estimation. Finally, it surveys resources, code, and data necessary for expediting the development of effective correspondence-based computer vision systems. ·   Provides in-depth coverage of dense-correspondence estimation ·   Covers both the breadth and depth of new achievements in dense correspondence estimation and their applications ·   Includes information for designing computer vision systems that rely on efficient and robust correspondence estimation .