Record Nr.	UNINA9910298969003321
Autore Titolo	He Ran Robust Recognition via Information Theoretic Learning / / by Ran He,
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Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-07416-4
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (120 p.)
Collana	SpringerBriefs in Computer Science, , 2191-5768
Disciplina	006.3 006.37
Soggetti	Optical data processing Computer Imaging, Vision, Pattern Recognition and Graphics Image Processing and Computer Vision
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 M-estimators and Half-quadratic Minimization Information Measures Correntropy and Linear Representation 1 Regularized Correntropy Correntropy with Nonnegative Constraint.
Sommario/riassunto	This Springer Brief represents a comprehensive review of information theoretic methods for robust recognition. A variety of information theoretic methods have been proffered in the past decade, in a large variety of computer vision applications; this work brings them together, attempts to impart the theory, optimization and usage of information entropy. The authors resort to a new information theoretic concept, correntropy, as a robust measure and apply it to solve robust face recognition and object recognition problems. For computational efficiency, the brief introduces the additive and multiplicative forms of half-quadratic optimization to efficiently minimize entropy problems and a two-stage sparse presentation framework for large scale recognition problems. It also describes the strengths and deficiencies of different robust measures in solving robust recognition problems.

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