1. Record Nr. UNINA9910299701803321

Autore	Deng Yue
Titolo	High-Dimensional and Low-Quality Visual Information Processing : From Structured Sensing and Understanding / / by Yue Deng
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-662-44526-3
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (108 p.)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5053
Disciplina	005.74 006.312 006.37 006.6
Soggetti	Signal processing Image processing Speech processing systems Optical data processing Data structures (Computer science) Data mining Signal, Image and Speech Processing Image Processing and Computer Vision Data Structures and Information Theory Data Mining and Knowledge Discovery
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 and index.
Nota di contenuto	Introduction -- Sparse Structure for Visual Signal Sensing -- Graph Structure for Visual Signal Sensing -- Discriminative Structure for Visual Signal Understanding -- Information Theoretic Structure for Visual Signal Understanding -- Conclusions.
Sommario/riassunto	This thesis primarily focuses on how to carry out intelligent sensing and understand the high-dimensional and low-quality visual information. After exploring the inherent structures of the visual data, it proposes a number of computational models covering an extensive

range of mathematical topics, including compressive sensing, graph theory, probabilistic learning and information theory. These computational models are also applied to address a number of real-world problems including biometric recognition, stereo signal reconstruction, natural scene parsing, and SAR image processing.