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Disciplina	006.6
Soggetti	Information theory
	Numerical analysis
	Signal processing
	Image processing
	Speech processing systems
	Coding theory
	Matrix theory
	Algebra Computer mathematics
	Information and Communication Circuits
	Numerical Analysis
	Signal, Image and Speech Processing
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	Linear and Multilinear Algebras, Matrix Theory
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Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Preface On the Global-Local Dichotomy in Sparsity Modeling, Batenkov, Romano, Elad Fourier Phase Retrieval: Uniqueness and Algorithms, Bendory, Beinert, Eldar Compressed Sensing Approaches for Polynomial Approximation of High-Dimensional Functions, Adcock, Brugiapaglia, Webster Multisection in the Stochastic Block Model

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	using Semidefinite Programming, Agarwal, Bandeira, Koiliaris, Kolla Recovering Signals with Unknown Sparsity in Multiple Dictionaries, Ahmad, Schniter Compressive Classification and the Rare Eclipse Problem, Bandeira, Mixon, Recht Weak Phase Retrieval, Bothelo- Andrade, Casazza, Ghoreishi, Jose, Tremain Cubatures on Grassmannians: Moments, Dimension Reduction, and Related Topics, Breger, Ehler, Gräf, Peter A Randomized Tensor Train Singular Value Decomposition, Huber, Schneider, Wolf Versatile and Scalable Cosparse Methods for Phsyics-driven Inverse Problems, Kiti, Bensiad, Albera, Bertin, Gribonval Total Variation Minimization in Compressed Sensing, Felix Krahmer, Kruschel, Sandbichler Compressed Sensing in Hilbert Spaces, Traonmilin, Puy, Gribonval, Davies.
Sommario/riassunto	This contributed volume contains articles written by the plenary and invited speakers from the second international MATHEON Workshop 2015 that focus on applications of compressed sensing. Article authors address their techniques for solving the problems of compressed sensing, as well as connections to related areas like detecting community-like structures in graphs, curbatures on Grassmanians, and randomized tensor train singular value decompositions. Some of the novel applications covered include dimensionality reduction, information theory, random matrices, sparse approximation, and sparse recovery. This book is aimed at both graduate students and researchers in the areas of applied mathematics, computer science, and engineering, as well as other applied scientists exploring the potential applications for the novel methodology of compressed sensing. An introduction to the subject of compressed sensing is also provided for researchers in the field who are not as familiar with it