1. Record Nr. UNINA9910300243103321

Titolo	Excursions in Harmonic Analysis, Volume 4 : The February Fourier Talks at the Norbert Wiener Center / / edited by Radu Balan, Matthew Begué, John J. Benedetto, Wojciech Czaja, Kasso A. Okoudjou
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2015
ISBN	3-319-20188-3
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (440 p.)
Collana	Applied and Numerical Harmonic Analysis, , 2296-5009
Disciplina	515.2433
Soggetti	Harmonic analysis Approximation theory Functional analysis Integral transforms Calculus, Operational Applied mathematics Engineering mathematics Abstract Harmonic Analysis Approximations and Expansions Functional Analysis Integral Transforms, Operational Calculus Mathematical and Computational Engineering
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	Wiener Randomization on Unbounded Domains and an Application to Almost Sure Well-Posedness of NLS -- Bridging Erasures and the Infrastructure of Frames -- Choosing Function Spaces in Harmonic Analysis -- Existence of Frames with Prescribed Norms and Frame Operator -- Phase Transitions in Phase Retrieval -- Sparsity-Assisted Signal Smoothing -- A Message-Passing Approach to Phase Retrieval of Sparse Signals -- Importance Sampling in Signal Processing Applications -- Finite Dimensional Dynamical Sampling: An Overview -- Signal Processing on Weighted Line Graphs -- Adaptive Signal

Processing -- Spectral Correlation Hub Screening of Multivariate Time Series -- A Spectral Analysis Approach for Experimental Designs -- The Synchrosqueezing Transform for Instantaneous Spectral Analysis -- Supervised Non-Negative Matrix Factorization for Audio Source Separation.

Sommario/riassunto

This volume consists of contributions spanning a wide spectrum of harmonic analysis and its applications written by speakers at the February Fourier Talks from 2002 – 2013. Containing cutting-edge results by an impressive array of mathematicians, engineers, and scientists in academia, industry, and government, it will be an excellent reference for graduate students, researchers, and professionals in pure and applied mathematics, physics, and engineering. Topics covered include: • Special Topics in Harmonic Analysis • Applications and Algorithms in the Physical Sciences • Gabor Theory • RADAR and Communications: Design, Theory, and Applications The February Fourier Talks are held annually at the Norbert Wiener Center for Harmonic Analysis and Applications. Located at the University of Maryland, College Park, the Norbert Wiener Center provides a state-of-the-art research venue for the broad emerging area of mathematical engineering.