Record Nr.	UNINA9910299718103321
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Titolo	Topological signal processing / / Michael Robinson
Pubbl/distr/stampa	Heidelberg, Germany : , : Springer, , 2014
ISBN	3-642-36104-8
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (xvi, 208 pages) : illustrations
Collana	Mathematical Engineering, , 2192-4732
Disciplina	621.382 621.382/2 621.382201514
Soggetti	Signal processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"ISSN: 2192-4732."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction and informal discussion Parametrization Signals Detection Transforms Noise.
Sommario/riassunto	Signal processing is the discipline of extracting information from collections of measurements. To be effective, the measurements must be organized and then filtered, detected, or transformed to expose the desired information. Distortions caused by uncertainty, noise, and clutter degrade the performance of practical signal processing systems. In aggressively uncertain situations, the full truth about an underlying signal cannot be known. This book develops the theory and practice of signal processing systems for these situations that extract useful, qualitative information using the mathematics of topology the study of spaces under continuous transformations. Since the collection of continuous transformations is large and varied, tools which are topologically-motivated are automatically insensitive to substantial distortion. The target audience comprises practitioners as well as researchers, but the book may also be beneficial for graduate students.

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