1.	Record Nr.	UNINA9910254326103321
	Autore	Kovacevic Branko
	Titolo	Robust Digital Processing of Speech Signals / / by Branko Kovacevic, Milan M. Milosavljevic, Mladen Veinovi, Milan Markovi
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
	ISBN	3-319-53613-3
	Edizione	[1st ed. 2017.]
	Descrizione fisica	1 online resource (XII, 224 p. 54 illus.)
	Disciplina	621.382
	Soggetti	Signal processing Image processing Speech processing systems Natural language processing (Computer science) Computational intelligence Signal, Image and Speech Processing Natural Language Processing (NLP) Computational Intelligence
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Modelling of Speech Signal -- Review of Standard Methods -- Fundamentals of Robust Parameter Estimation -- Robust Nonrecursive AR Analysis of Speech Signals -- Robust Recursive AR Analysis of Speech Signals -- Robust Estimation Based on Pattern Recognition -- Application of Robust Estimators in Speech Signal Processing.
	Sommario/riassunto	This book focuses on speech signal phenomena, presenting a robustification of the usual speech generation models with regard to the presumed types of excitation signals, which is equivalent to the introduction of a class of nonlinear models and the corresponding criterion functions for parameter estimation. Compared to the general class of nonlinear models, such as various neural networks, these models possess good properties of controlled complexity, the option of working in "online" mode, as well as a low information volume for efficient speech encoding and transmission. Providing comprehensive insights, the book is based on the authors' research, which has already

been published, supplemented by additional texts discussing general considerations of speech modeling, linear predictive analysis and robust parameter estimation.