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2. Record Nr.	UNINA9910144585203321
Autore	Vaseghi Saeed V
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>pt. I. Basic digital signal processing. Introduction ; Fourier analysis and synthesis ; z-Transform ; Digital filters ; Sampling and quantisation --</p> <p>pt. II. Model-based signal processing. Information theory and probability models ; Bayesian inference ; Least square error, Wiener-Kolmogrov filters ; Adaptive filters : Kalman, RLS, LMS ; Linear prediction models ; Hidden Markov models ; Eigen vector analysis, principal component analysis and independent component analysis --</p> <p>pt. III. Applications of digital signal processing to speech, music and telecommunications. Music signal processing and auditory perception ; Speech processing ; Speech enhancement ; Echo cancellation ; Channel equalisation and blind deconvolution ; Signal processing in mobile communication.</p>
Sommario/riassunto	<p>Multimedia Signal Processing is a comprehensive and accessible text to the theory and applications of digital signal processing (DSP). The applications of DSP are pervasive and include multimedia systems, cellular communication, adaptive network management, radar, pattern recognition, medical signal processing, financial data forecasting, artificial intelligence, decision making, control systems and search engines. This book is organised in to three major parts making it a coherent and structured presentation of the theory and applications of digital signal processing. A range of</p>