

1. Record Nr.	UNINA9910144585203321
Autore	Vaseghi Saeed V
Titolo	Multimedia signal processing : theory and applications in speech, music and communications // Saeed V. Vaseghi
Pubbl/distr/stampa	Chichester, England ; ; Hoboken, NJ, : J. Wiley, c2007
ISBN	9786611135263 9781281135261 1281135267 9780470066508 0470066504 9780470066492 0470066490
Edizione	[1st ed.]
Descrizione fisica	1 online resource (676 p.)
Classificazione	53.71 05.39 54.74
Disciplina	621.382/2
Soggetti	Signal processing Multimedia systems
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 and index.
Nota di contenuto	pt. I. Basic digital signal processing. Introduction ; Fourier analysis and synthesis ; z-Transform ; Digital filters ; Sampling and quantisation -- 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 -- 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.
Sommario/riassunto	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
