1. Record Nr.	UNINA9910824365503321
Autore	Principe J. C (Jose C.)
Titolo	Kernel adaptive filtering : a comprehensive introduction / / Jose C. Principe, Weifeng Liu, Simon Haykin
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2010
ISBN	9786612549779
	9781118211212
	1118211219
	9781282549777
	1282549774
	9780470608593
	0470608595
	9780470608586
	0470608587
Edizione	[1st ed.]
Descrizione fisica	1 online resource (236 p.)
Collana	Adaptive and Learning Systems for Signal Processing, Communications and Control Series ; ; v.57
Altri autori (Persone)	LiuWeifeng
	HaykinSimon S. <1931->
Disciplina	621.382/23
Soggetti	Adaptive filters
	Kernel functions
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	KERNEL ADAPTIVE FILTERING; CONTENTS; PREFACE; ACKNOWLEDGMENTS; NOTATION; ABBREVIATIONS AND SYMBOLS; 1 BACKGROUND AND PREVIEW; 2 KERNEL LEAST-MEAN-SQUARE ALGORITHM; 3 KERNEL AFFINE PROJECTION ALGORITHMS; 4 KERNEL RECURSIVE LEAST-SQUARES ALGORITHM; 5 EXTENDED KERNEL RECURSIVE LEAST-SQUARES ALGORITHM; 6 DESIGNING SPARSE KERNEL ADAPTIVE FILTERS; EPILOGUE; APPENDIX; A MATHEMATICAL BACKGROUND; B APPROXIMATE LINEAR DEPENDENCY AND SYSTEM STABILITY; REFERENCES; INDEX
Sommario/riassunto	Online learning from a signal processing perspective There is increased interest in kernel learning algorithms in neural networks and a growing

need for nonlinear adaptive algorithms in advanced signal processing, communications, and controls. Kernel Adaptive Filtering is the first book to present a comprehensive, unifying introduction to online learning algorithms in reproducing kernel Hilbert spaces. Based on research being conducted in the Computational Neuro-Engineering Laboratory at the University of Florida and in the Cognitive Systems Laboratory at McMaster University,