1.	Record Nr.	UNINA9910958625303321
	Autore	Härdle Wolfgang
	Titolo	Smoothing Techniques : With Implementation in S / / by Wolfgang Härdle
	Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 1991
	ISBN	1-4612-4432-3
	Edizione	[1st ed. 1991.]
	Descrizione fisica	1 online resource (XII, 262 p.)
	Collana	Springer Series in Statistics, , 2197-568X
	Disciplina	519
	Soggetti	Mathematics Applications of Mathematics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	"With 87 Illustrations."
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	I. Density Smoothing -- 1. The Histogram -- 2. Kernel Density Estimation -- 3. Further Density Estimators -- 4. Bandwidth Selection in Practice -- II. Regression Smoothing -- 5. Nonparametric Regression -- 6. Bandwidth Selection -- 7. Simultaneous Error Bars -- Tables -- Solutions -- List of Used S Commands -- Symbols and Notation -- References.
	Sommario/riassunto	The author has attempted to present a book that provides a non-technical introduction into the area of non-parametric density and regression function estimation. The application of these methods is discussed in terms of the S computing environment. Smoothing in high dimensions faces the problem of data sparseness. A principal feature of smoothing, the averaging of data points in a prescribed neighborhood, is not really practicable in dimensions greater than three if we have just one hundred data points. Additive models provide a way out of this dilemma; but, for their interactiveness and recursiveness, they require highly effective algorithms. For this purpose, the method of WARPing (Weighted Averaging using Rounded Points) is described in great detail.