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| Titolo | Semiparametric Regression with R // by Jaroslaw Harezlak, David Ruppert, Matt P. Wand |
| Pubbl/distr/stampa | New York, NY : , : Springer New York : , : Imprint : Springer, , 2018 |
| ISBN | 9781493988532 1493988530 |
| Edizione | [1st ed. 2018.] |
| Descrizione fisica | 1 online resource (341 pages) |
| Collana | Use R!, , 2197-5744 |
| Disciplina | 519.536 |
| Soggetti | Statistics Biometry Statistical Theory and Methods Biostatistics Statistics in Business, Management, Economics, Finance, Insurance |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Introduction -- Penalized Splines -- Generalized Additive Models -- Semiparametric Regression Analysis of Grouped Data -- Bivariate Function Extensions -- Selection of Additional Topics.-Index. |
| Sommario/riassunto | This easy-to-follow applied book expands upon the authors' prior work on semiparametric regression to include the use of R software. In 2003, authors Ruppert and Wand co-wrote Semiparametric Regression with R.J. Carroll, which introduced the techniques and benefits of semiparametric regression in a concise and user-friendly fashion. Fifteen years later, semiparametric regression is applied widely, powerful new methodology is continually being developed, and advances in the R computing environment make it easier than ever before to carry out analyses. Semiparametric Regression with R introduces the basic concepts of semiparametric regression with a focus on applications and R software. This volume features case studies from environmental, economic, financial, and other fields. The examples and corresponding code can be used or adapted to apply semiparametric regression to a wide range of problems. It contains more than fifty exercises, and the accompanying HRW package contains |

all datasets and scripts used in the book, as well as some useful R functions. This book is suitable as a textbook for advanced undergraduates and graduate students, as well as a guide for statistically-oriented practitioners, and could be used in conjunction with Semiparametric Regression. Readers are assumed to have a basic knowledge of R and some exposure to linear models. For the underpinning principles, calculus-based probability, statistics, and linear algebra are desirable.
