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Titolo	Direction dependence in statistical modeling : methods of analysis // edited by Wolfgang Wiedermann [and three others]
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Descrizione fisica	1 online resource (435 pages)
Disciplina	519.5
Soggetti	Dependence (Statistics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	From Correlation to Direction Dependence Analysis: 1888-2018 / Yadolah Dodge and Valentin Rousson -- Direction Dependence Analysis: Statistical Foundations and Applications / Wolfgang Wiedermann, Xintong Li, and Alexander von Eye -- The Use of Copulas for Directional Dependence Modeling / Engin Sungur -- Asymmetry Properties of the Partial Correlation Coefficient: Foundations for Covariate-Adjustment in Distribution-based Direction Dependence Analysis / Wolfgang Wiedermann -- Recent Advances in Semi-Parametric Methods for Causal Discovery / Shohei Shimizu and Patrick Blolbaum -- Assumption Checking for Directional Causality Analyses / Phillip K. Wood -- Complete Dependence: A survey / Santi Tasena -- Locating Direction Dependence using Log-Linear Modeling, Configural Frequency Analysis, and Prediction Analysis / Alexander von Eye and Wolfgang Wiedermann -- Recent Development on Asymmetric Association Measures for Contingency Tables / Xiaonan Zhu, Zheng Wei and Tonghui Wang -- Analysis of asymmetric dependence for three-way contingency tables using the subcopula approach / Daeyoung Kim and Zheng Wei -- Distribution-based Causal Inference: A Review and Practical Guidance for Epidemiologists / Tom Rosenstrolm and Regina Garcil'a-Velal'zquez -- Determining causality in relation to early risk factors for ADHD: The case of breastfeeding duration / Joel T. Nigg,

Diane D. Stadler, Alexander von Eye and Wolfgang Wiedermann -- Direction of Effect between Intimate Partner Violence and Mood Lability: A Granger Causality Model / G. Anne Bogat, Alytia A. Levendosky, Jade Kobayashi and Alexander von Eye -- On the Causal Relation of Academic Achievement and Intrinsic Motivation: An Application of Direction Dependence Analysis using SPSS Custom Dialogs / Xintong Li and Wolfgang Wiedermann.

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Sommario/riassunto

"This edited book examines current methods for the statistical analysis of hypotheses that are compatible with direction dependence. The proposed book is divided in four parts, each consisting of two or more chapters, for a total of 14 chapters. The first part of this book introduces the fundamental concepts of direction dependence in statistical models. The authors provide a historical view on the origins of studying the direction of dependence in a regression line. Various classes of copulas with directional dependence properties are introduced. In addition, an introduction into copula regression functions and concomitants of order statistics in directional dependence modeling is given. Part II of the proposed book is devoted to recent developments and advances in direction dependence modeling of continuous variables and contains six chapters. The author demonstrates the benefits of incorporating concepts of direction dependence to identify causal models. Part III of the proposed volume introduces direction dependence methods for the categorical variable case. Finally, Part IV of the proposed book is devoted to substantive theory and real-world applications and consists of four chapters. The author introduces custom dialogs and macros in SPSS to make direction dependence analysis accessible to applied empirical researchers."--

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