1. Record Nr. UNINA9910437926103321

Titolo	Synergies of Soft Computing and Statistics for Intelligent Data Analysis / / edited by Rudolf Kruse, Michael R. Berthold, Christian Moewes, María Ángeles Gil, Przemysaw Grzegorzewski, Olgierd Hryniewicz
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	9781283912501 1283912503 9783642330421 3642330428
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (554 p.)
Collana	Advances in Intelligent Systems and Computing, , 2194-5365 ; ; 190
Altri autori (Persone)	KruseRudolf
Disciplina	519.5
Soggetti	Computational intelligence Artificial intelligence Computational Intelligence Artificial Intelligence
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	PART I Invited Papers -- PART II Foundations -- PART III Statistical Methods -- PART IV Mathematical Aspects -- PART V Engineering.
Sommario/riassunto	In recent years there has been a growing interest to extend classical methods for data analysis. The aim is to allow a more flexible modeling of phenomena such as uncertainty, imprecision or ignorance. Such extensions of classical probability theory and statistics are useful in many real-life situations, since uncertainties in data are not only present in the form of randomness --- various types of incomplete or subjective information have to be handled. About twelve years ago the idea of strengthening the dialogue between the various research communities in the field of data analysis was born and resulted in the International Conference Series on Soft Methods in Probability and Statistics (SMPS). This book gathers contributions presented at the SMPS'2012 held in Konstanz, Germany. Its aim is to present recent results illustrating new trends in intelligent data analysis. It gives a

comprehensive overview of current research into the fusion of soft computing methods with probability and statistics. Synergies of both fields might improve intelligent data analysis methods in terms of robustness to noise and applicability to larger datasets, while being able to efficiently obtain understandable solutions of real-world problems.