

1. Record Nr.	UNINA9910437762603321
Titolo	Recent Advances on Hybrid Intelligent Systems // edited by Oscar Castillo, Patricia Melin, Janusz Kacprzyk
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	9783642330216 3642330215
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (XII, 572 p.)
Collana	Studies in Computational Intelligence, , 1860-9503 ; ; 451
Altri autori (Persone)	CastilloOscar <1959-> MelinPatricia <1962-> KacprzykJanusz
Disciplina	006.3
Soggetti	Computational intelligence Artificial intelligence Computational Intelligence Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Part I Hybrid Intelligent Systems for Control and Robotics -- Part II Hybrid Intelligent Systems for Pattern Recognition and Time Series Prediction -- Part III Bio-Inspired and Genetic Optimization Methods .- Part IV Intelligent Optimization and Applications -- Part V Evolutionary Methods and Intelligent Computing .
Sommario/riassunto	This book presents recent advances on hybrid intelligent systems using soft computing techniques for intelligent control and robotics, pattern recognition, time series prediction and optimization of complex problems. Soft Computing (SC) consists of several intelligent computing paradigms, including fuzzy logic, neural networks, and bio-inspired optimization algorithms, which can be used to produce powerful hybrid intelligent systems. The book is organized in five main parts, which contain groups of papers around a similar subject. The first part consists of papers with the main theme of hybrid intelligent systems for control and robotics, which are basically state of the art papers that propose new models and concepts, which can be the basis

for achieving intelligent control and mobile robotics. The second part contains papers with the main theme of hybrid intelligent systems for pattern recognition and time series prediction, which are basically papers using nature-inspired techniques, like evolutionary algorithms, fuzzy logic and neural networks, for achieving efficient pattern recognition or time series prediction. The third part contains papers with the theme of bio-inspired and genetic optimization methods, which basically consider the proposal of new methods and applications of bio-inspired optimization to solve complex optimization of real problems. The fourth part contains papers that deal with the application of intelligent optimization techniques in real world problems in scheduling, planning and manufacturing. The fifth part contains papers with the theme of evolutionary methods and intelligent computing, which are papers considering soft computing methods for applications related to diverse areas, such as natural language processing, recommending systems and optimization. .
