

1. Record Nr.	UNINA9910254343603321
Titolo	Information Technology and Computational Physics // edited by Piotr Kulczycki, László T. Kóczy, Radko Mesiar, Janusz Kacprzyk
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
ISBN	3-319-44260-0
Edizione	[1st ed. 2017.]
Descrizione fisica	1 online resource (VIII, 255 p. 102 illus., 65 illus. in color.)
Collana	Advances in Intelligent Systems and Computing, , 2194-5365 ; ; 462
Disciplina	004
Soggetti	Computational intelligence Artificial intelligence Mathematical physics Computational Intelligence Artificial Intelligence Theoretical, Mathematical and Computational Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Part I: Intelligent Computing and Data Analysis -- Part II: Information Systems and Image Processing -- Part III: Computational Physics and Applied Mathematics.
Sommario/riassunto	A broad spectrum of modern Information Technology (IT) tools, techniques, main developments and still open challenges is presented. Emphasis is on new research directions in various fields of science and technology that are related to data analysis, data mining, knowledge discovery, information retrieval, clustering and classification, decision making and decision support, control, computational mathematics and physics, to name a few. Applications in many relevant fields are presented, notably in telecommunication, social networks, recommender systems, fault detection, robotics, image analysis and recognition, electronics, etc. The methods used by the authors range from high level formal mathematical tools and techniques, through algorithmic and computational tools, to modern metaheuristics.