1.	Record Nr.	UNINA9910254358203321
	Titolo	NEO 2015 : Results of the Numerical and Evolutionary Optimization Workshop NEO 2015 held at September 23-25 2015 in Tijuana, Mexico / / edited by Oliver Schütze, Leonardo Trujillo, Pierrick Legrand, Yazmin Maldonado
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017
	ISBN	3-319-44003-9
	Edizione	[1st ed. 2017.]
	Descrizione fisica	1 online resource (XVI, 444 p. 198 illus., 107 illus. in color.)
	Collana	Studies in Computational Intelligence, , 1860-949X ; ; 663
	Disciplina	519.6
	Soggetti	Computational intelligence Artificial intelligence Mathematical optimization Optical data processing Big data Computational Intelligence Artificial Intelligence Optimization Computer Imaging, Vision, Pattern Recognition and Graphics Big Data/Analytics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographic references and index.
	Nota di contenuto	Part I Genetic Programming -- Part II Combinatorial Optimization -- Part IV Machine Learning and Real World Applications.
	Sommario/riassunto	This volume comprises a selection of works presented at the Numerical and Evolutionary Optimization (NEO) workshop held in September 2015 in Tijuana, Mexico. The development of powerful search and optimization techniques is of great importance in today's world that requires researchers and practitioners to tackle a growing number of challenging real-world problems. In particular, there are two well-established and widely known fields that are commonly applied in this area: (i) traditional numerical optimization techniques and (ii)

comparatively recent bio-inspired heuristics. Both paradigms have their unique strengths and weaknesses, allowing them to solve some challenging problems while still failing in others. The goal of the NEO workshop series is to bring together people from these and related fields to discuss, compare and merge their complimentary perspectives in order to develop fast and reliable hybrid methods that maximize the strengths and minimize the weaknesses of the underlying paradigms. Through this effort, we believe that the NEO can promote the development of new techniques that are applicable to a broader class of problems. Moreover, NEO fosters the understanding and adequate treatment of real-world problems particularly in emerging fields that affect us all such as health care, smart cities, big data, among many others. The extended papers the NEO 2015 that comprise this book make a contribution to this goal.