

1. Record Nr.	UNINA9910917779603321
Autore	Kalia Susheel
Titolo	Polymers for Advanced Technology : Select Proceedings of APA 2023 / / edited by Susheel Kalia, Mohammad Jawaid, Bhuvanesh Gupta
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819772094 9819772095
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (188 pages)
Collana	Springer Proceedings in Materials, , 2662-317X ; ; 1
Altri autori (Persone)	JawaidMohammad GuptaBhuvanesh
Disciplina	620.192
Soggetti	Polymers Polymerization Biopolymers Biomaterials Building materials Nanotechnology Polymer Synthesis Wood, fabric, and textiles Nanoengineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book presents select proceedings of the International Conference on Polymers for Advanced Technology (APA 2023). Polymers offer enormous opportunities for newer applications in technologically important areas. This book includes comprehensive step-by-step chapters with details of the processing and functionalization of polymers and their applications. This book will help the readers to know the recent developments and comprehensive research on polymers for advanced technology. All chapters in this book include illustrations, tables, figures, graphs, bibliographies, and extensive references to provide comprehensive information to the readers. This book can be a valuable reference for researchers and professionals

interested in polymeric materials and biomaterials.

2. Record Nr.	UNINA9910484477803321
Autore	Mirjalili Seyedali
Titolo	Evolutionary Algorithms and Neural Networks : Theory and Applications // by Seyedali Mirjalili
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-319-93025-7
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XIV, 156 p. 68 illus., 60 illus. in color.)
Collana	Studies in Computational Intelligence, , 1860-9503 ; ; 780
Disciplina	006.32
Soggetti	Computational intelligence Artificial intelligence Neural networks (Computer science) Computer simulation Computational Intelligence Artificial Intelligence Mathematical Models of Cognitive Processes and Neural Networks Computer Modelling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I: Evolutionary algorithms -- Introduction to Evolutionary Single-objective Optimisation -- Particle Swarm Optimisation -- Ant Colony Optimization -- Genetic Algorithm -- Biogeography-Based Optimization -- Part II: Evolutionary Neural Networks -- Evolutionary Feedforward Neural Networks -- Evolutionary Multi-Layer Perceptron -- Evolutionary Radial Basis Function Networks -- Evolutionary Deep Neural Networks.
Sommario/riassunto	This book introduces readers to the fundamentals of artificial neural networks, with a special emphasis on evolutionary algorithms. At first, the book offers a literature review of several well-regarded evolutionary algorithms, including particle swarm and ant colony optimization, genetic algorithms and biogeography-based optimization. It then

proposes evolutionary version of several types of neural networks such as feed forward neural networks, radial basis function networks, as well as recurrent neural networks and multi-layer perceptron. Most of the challenges that have to be addressed when training artificial neural networks using evolutionary algorithms are discussed in detail. The book also demonstrates the application of the proposed algorithms for several purposes such as classification, clustering, approximation, and prediction problems. It provides a tutorial on how to design, adapt, and evaluate artificial neural networks as well, and includes source codes for most of the proposed techniques as supplementary materials. .
