1. Record Nr. UNINA9910484248103321

Autore	Wani M. Arif
Titolo	Advances in Deep Learning / / by M. Arif Wani, Farooq Ahmad Bhat, Saduf Afzal, Asif Iqbal Khan
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-13-6794-9
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XIV, 149 p. 87 illus., 53 illus. in color.)
Collana	Studies in Big Data, , 2197-6503 ; ; 57
Disciplina	006.3
Soggetti	Computational intelligence Big data Neural networks (Computer science) Optical data processing Artificial intelligence Computational Intelligence Big Data Mathematical Models of Cognitive Processes and Neural Networks Computer Imaging, Vision, Pattern Recognition and Graphics Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Introduction to Deep Learning -- Basic Deep Learning Models -- Training Basic Deep Learning Models -- Optimising Deep Learning Models -- Application of Deep Learning in Classification -- Application of Deep Learning in Segmentation -- Application of Deep Learning in Face Recognition -- Application of Deep Learning in Fingerprint Recognition -- Author's Index.
Sommario/riassunto	This book introduces readers to both basic and advanced concepts in deep network models. It covers state-of-the-art deep architectures that many researchers are currently using to overcome the limitations of the traditional artificial neural networks. Various deep architecture models and their components are discussed in detail, and subsequently illustrated by algorithms and selected applications. In addition, the book explains in detail the transfer learning approach for faster

training of deep models; the approach is also demonstrated on large volumes of fingerprint and face image datasets. In closing, it discusses the unique set of problems and challenges associated with these models.