1.	Record Nr.	UNINA9911001462703321
	Autore	Wani M. Arif
	Titolo	Advances in Deep Learning, Volume 2 / / by M. Arif Wani, Bisma Sultan, Sarwat Ali, Mukhtar Ahmad Sofi
	Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
	ISBN	981-9634-98-9
	Edizione	[1st ed. 2025.]
	Descrizione fisica	1 online resource (XVI, 186 p. 94 illus., 62 illus. in color.)
	Collana	Studies in Big Data, , 2197-6511 ; ; 12
	Disciplina	006.3
	Soggetti	Computational intelligence
		Big data
		Neural networks (Computer science)
		Image processing - Digital techniques
		Computer vision
		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	Introduction to Deep Learning Architectures -- Evolutionary Algorithm-based Neural Architecture SearchEvolutionary Algorithm-based Neural Architecture Search -- Gradient-based Neural Architecture Search.
	Sommario/riassunto	This book describes novel ways of using deep learning to solve real-world problems. It covers advanced deep learning topics like neural architecture search, ensemble deep learning, transfer learning techniques, lightweight architectures, hybrid deep learning approaches, and generative adversarial networks. The book discusses the use of these advanced topics in selected applications like image classification, object detection, image steganography, protein secondary structure prediction, and gene expression data classification. Various challenges and future research directions falling under the scope of these topics

are discussed.