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Soggetti	Physics Physique physics Natuurkunde Periodicals.
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Formato	Materiale a stampa
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Sommario/riassunto	Volumes for 1903- include Proceedings of the American Physical Society.

2. Record Nr. UNINA9911019109303321

Autore	Campbell Sawyer D
Titolo	Advances in Electromagnetics Empowered by Artificial Intelligence and Deep Learning
Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2023 ©2023
ISBN	9781119853923 1119853923 9781119853909 1119853907
Edizione	[1st ed.]
Descrizione fisica	1 online resource (595 pages)
Collana	IEEE Press Series on Electromagnetic Wave Theory Series
Altri autori (Persone)	WernerDouglas H
Disciplina	537.0285/63
Soggetti	Artificial intelligence Deep learning (Machine learning)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- About the Editors -- List of Contributors -- Preface -- Part I Introduction to AIBased Regression and Classification -- Chapter 1 Introduction to Neural Networks -- 1.1 Taxonomy -- 1.1.1 Supervised Versus Unsupervised Learning -- 1.1.2 Regression Versus Classification -- 1.1.3 Training, Validation, and Test Sets -- 1.2 Linear Regression -- 1.2.1 Objective Functions -- 1.2.2 Stochastic Gradient Descent -- 1.3 Logistic Classification -- 1.4 Regularization -- 1.5 Neural Networks -- 1.6 Convolutional Neural Networks -- 1.6.1 Convolutional Layers -- 1.6.2 Pooling Layers -- 1.6.3 Highway Connections -- 1.6.4 Recurrent Layers -- 1.7 Conclusion -- References -- Chapter 2 Overview of Recent Advancements in Deep Learning and Artificial Intelligence -- 2.1 Deep Learning -- 2.1.1 Supervised Learning -- 2.1.1.1 Conventional Approaches
Sommario/riassunto	This book explores advancements in artificial intelligence and deep learning, particularly focusing on applications in electrical engineering and wave theory. It covers topics such as AI-based regression and classification, neural networks, and the integration of machine learning

in designing metasurfaces and electromagnetic applications. Edited by Sawyer D. Campbell and Douglas H. Werner, the book serves as a comprehensive resource for researchers and professionals in the field, aiming to enhance understanding of the latest technologies in AI and deep learning. The intended audience includes academics, engineers, and advanced students interested in AI applications in engineering.