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Autore	Suresh Sundaram
Titolo	Supervised learning with complex-valued neural networks // Sundaram Suresh, Narasimhan Sundararajan, and Ramasamy Savitha
Pubbl/distr/stampa	Heidelberg ; ; New York, : Springer, c2013
ISBN	9783642294914 364229491X
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Descrizione fisica	1 online resource (XXII, 170 p.)
Collana	Studies in computational intelligence, , 1860-949X ; ; 421
Altri autori (Persone)	SundararajanNarasimhan SavithaRamasamy
Disciplina	006.31
Soggetti	Supervised learning (Machine learning) Neural networks (Computer science)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Fully Complex-valued Multi Layer Perceptron Networks -- Fully Complex-valued Radial Basis Function Networks -- Performance Study on Complex-valued Function Approximation Problems -- Circular Complex-valued Extreme Learning Machine Classifier -- Performance Study on Real-valued Classification Problems -- Complex-valued Self-regulatory Resource Allocation Network -- Conclusions and Scope for FutureWorks (CSRAN).
Sommario/riassunto	Recent advancements in the field of telecommunications, medical imaging and signal processing deal with signals that are inherently time varying, nonlinear and complex-valued. The time varying, nonlinear characteristics of these signals can be effectively analyzed using artificial neural networks. Furthermore, to efficiently preserve the physical characteristics of these complex-valued signals, it is important to develop complex-valued neural networks and derive their learning algorithms to represent these signals at every step of the learning process. This monograph comprises a collection of new supervised learning algorithms along with novel architectures for complex-valued neural networks. The concepts of meta-cognition equipped with a self-regulated learning have been known to be the best human learning strategy. In this monograph, the principles of meta-cognition have

been introduced for complex-valued neural networks in both the batch and sequential learning modes. For applications where the computation time of the training process is critical, a fast learning complex-valued neural network called as a fully complex-valued relaxation network along with its learning algorithm has been presented. The presence of orthogonal decision boundaries helps complex-valued neural networks to outperform real-valued networks in performing classification tasks. This aspect has been highlighted. The performances of various complex-valued neural networks are evaluated on a set of benchmark and real-world function approximation and real-valued classification problems.

2. Record Nr.	UNIORUON00466427
Autore	VIVENZA, Gloria
Titolo	Adam Smith and the classics : the classical heritage in Adam Smith's thought / Gloria Vivenza
Pubbl/distr/stampa	Oxford, : Oxford University Press, 2001
ISBN	978-01-982966-6-9
Descrizione fisica	X, 240 p. ; 24 cm.
Soggetti	Smith Adam
Lingua di pubblicazione	Inglese
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