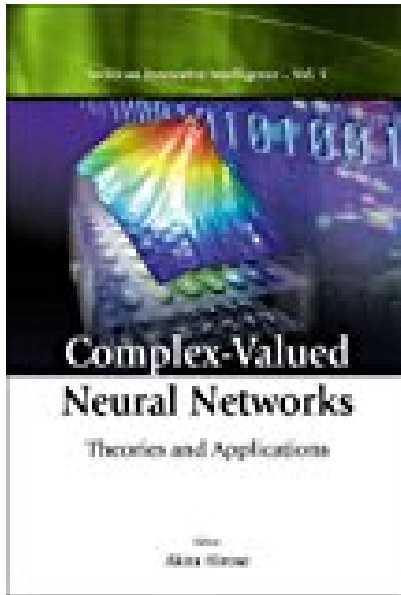


# Complex-Valued Neural Networks Theories and Applications Series on Innovative Intelligence--Vol. 5

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## BOOK DETAILS

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## BOOK SYNOPSIS

In recent years, complex-valued neural networks have widened the scope of application in optoelectronics, imaging, remote sensing, quantum neural devices and systems, spatiotemporal analysis of physiological neural systems, and artificial neural information processing. In this first-ever book on complex-valued neural networks, the most active scientists at the forefront of the field describe theories and applications from various points of view to provide academic and industrial researchers with a comprehensive understanding of the fundamentals, features and prospects of the powerful complex-valued networks. Contents: Complex-Valued Neural Networks: An Introduction (A Hirose) Orthogonal Decision Boundaries and Generalization of Complex-Valued Neural Networks (T Nitta) Clifford Networks (J Pearson) Applications of Complex-Valued Neural Networks for Image Processing (H Aoki) Phasor Model with Application to Multiuser Communication (T Miyajima & K Yamanaka) Adaptive Interferometric Radar Image Processing by Using Complex-Valued Neural Network (A B Suksmono & A Hirose) Coherent Lightwave Neural Network Systems: Use of Frequency Domain (S Kawata & A Hirose) and other articles Readership: Graduate students, academics, researchers, and industrialists in neural networks. Keywords: Neural Networks; Associative Memories; Image Processing; Signal Processing

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