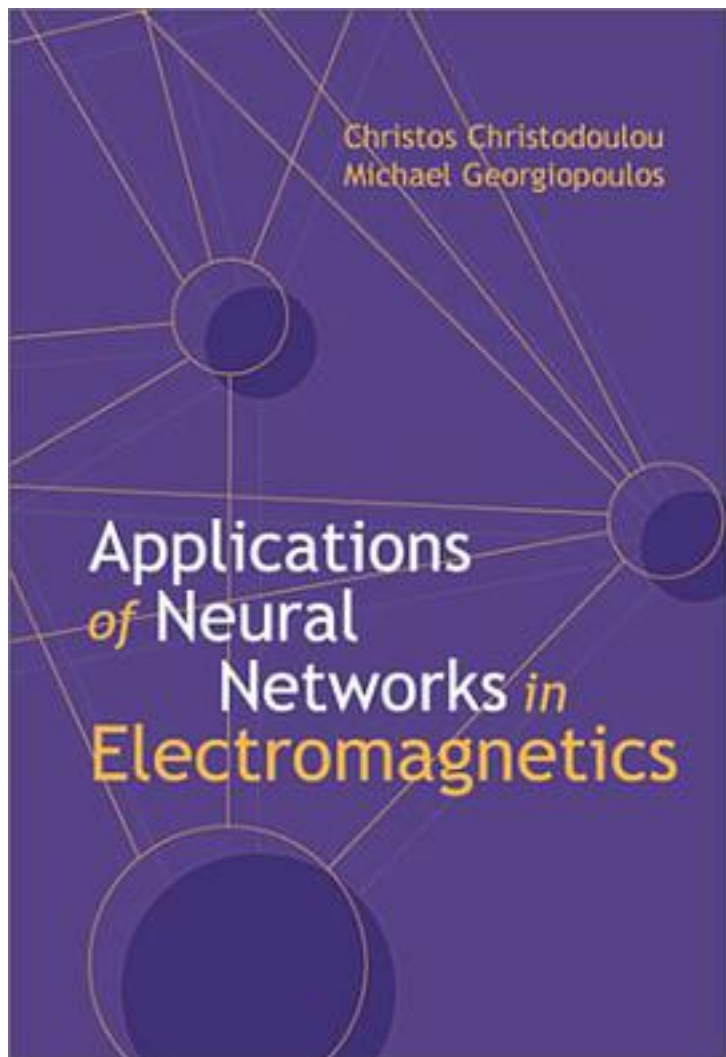


Applications of Neural Networks in Electromagnetics



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An explanation of how the high-speed capabilities and "learning" abilities of neural networks can be applied to solving numerous complex optimization problems in electromagnetics. It seeks to help the reader understand the basics and strengths and limitations of each main network architecture in use today. Moreover, it identifies situations when the use of neural networks is the best problem-solving option.

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Dr. Georgiopoulos has obtained the Diploma in Electrical Engineering (1981) from the National Technical University in Athens, Greece. He received his Masters and Ph.D. in Electrical Engineering from the University of Connecticut, Storrs, in 1983 and 1986, respectively. He joined the University of Central Florida in 1986, where he is currently a Professor in the School of EECS. His research areas are Machine Learning and Applications and Graduate Coordinator, with special emphasis on ART neural networks, decision tree classifiers and support vector machines. He has published over 200 papers in journals and conferences in his fields of expertise. He has been an Associate Editor of the IEEE Transactions of Neural Networks from 2002 to 2006, and an Associate Editor of the Neural Networks journal since 2006.

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