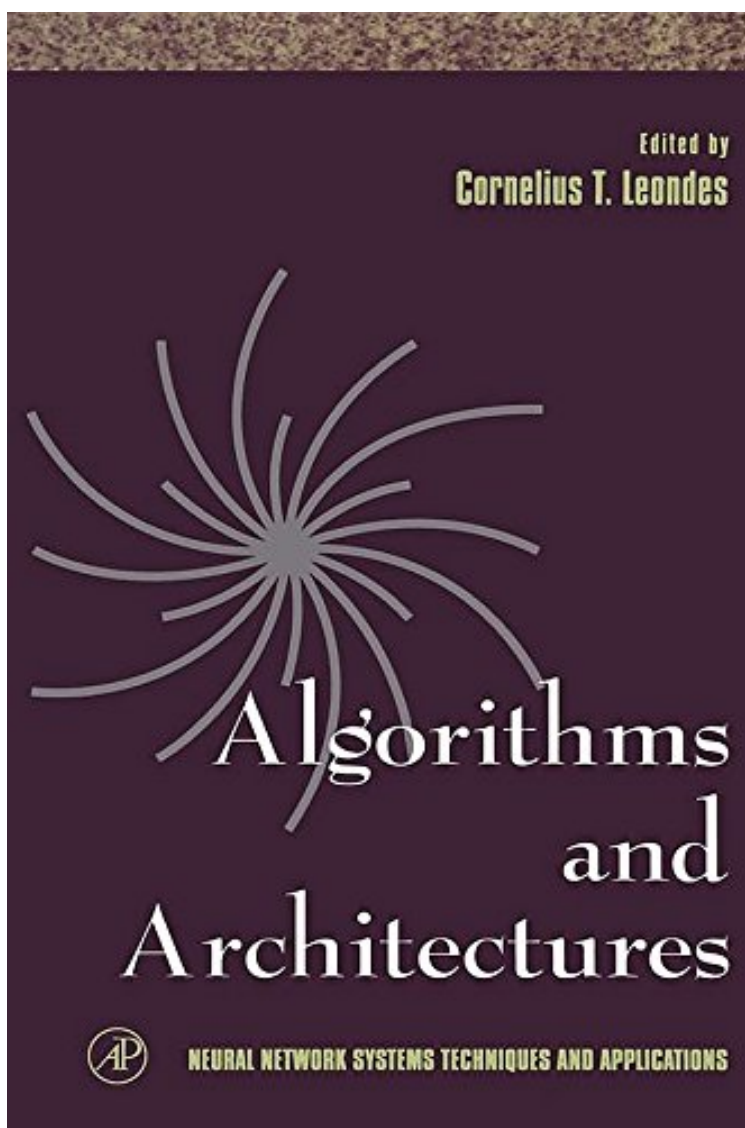


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## **Algorithms and Architectures: Algorithms and Architectures v. 1, Pt. 1 (Neural Network Systems Techniques and Applications)**

*Von Cornelius T. Leondes*

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KurzbeschreibungThis volume is the first diverse and comprehensive treatment of algorithms and architectures for the realization of neural network systems. It presents techniques and diverse methods in numerous areas of this broad subject. The book covers major neural network systems structures for achieving effective systems, and illustrates them with examples. This volume includes Radial Basis Function networks, the Expand-and-Truncate Learning algorithm for the synthesis of Three-Layer Threshold Networks, weight initialization, fast and efficient variants of Hamming and Hopfield neural networks, discrete time synchronous multilevel neural systems with reduced VLSI demands, probabilistic design techniques, time-based techniques, techniques for reducing physical realization requirements, and applications to finite constraint problems. A unique and comprehensive reference for a broad array of algorithms and architectures, this book will be of use to practitioners, researchers, and students in industrial, manufacturing, electrical, and mechanical engineering, as well as in computer science and engineering.

Radial Basis Function networks  
The Expand-and-Truncate Learning algorithm for the synthesis of Three-Layer Threshold Networks  
Weight initialization  
Fast and efficient variants of Hamming and Hopfield neural networks  
Discrete time synchronous multilevel neural systems with reduced VLSI demands  
Probabilistic design techniques  
Time-based techniques  
Techniques for reducing physical realization requirements  
Applications to finite constraint problems  
Practical realization methods for Hebbian type associative memory systems  
Parallel self-organizing hierarchical neural network systems  
Dynamics of networks of biological neurons for utilization in computational neuroscience

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