

Cellular Neural Networks, Multi-Scroll Chaos and Synchronization (World Scientific Series on Nonlinear Science, Series a)

By Johan A K Suykens

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For engineering applications that are based on nonlinear phenomena, novel information processing systems require new methodologies and design principles. This perspective is the basis of the three cornerstones of this book: cellular neural networks, chaos and synchronization. Cellular neural networks and their universal machine implementations offer a well-established platform for processing spatial-temporal patterns and wave computing. Multi-scroll circuits are generalizations to the original Chua's circuit, leading to chip implementable circuits with increasingly complex attractors. Several applications make use of synchronization techniques for nonlinear systems. A systematic overview is given for Lur'e representable systems with global synchronization criteria for master-slave and mutual synchronization, robust synchronization, H∞ synchronization, time-delayed systems and impulsive synchronization.

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Cellular Neural Networks, Multi-Scroll Chaos and Synchronization (World Scientific Series on Nonlinear Science, Series a) By Johan A K Suykens Bibliography

- Rank: #11085418 in Books
- Published on: 2005-02-16
- Original language: English
- Number of items: 1
- Dimensions: 9.30" h x .74" w x 6.56" l, 1.11 pounds
- Binding: Hardcover
- 231 pages

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