Handbook of CNN Image Processing: All You Need to Know about Cellular Neural Networks, Tao Yang, Yang's Scientific Research Institute, LLC, 2002, 097212120X, 9780972121200, . Cellular neural networks(CNN) were invented by Chua and Yang in 1988 in the Department of Electrical Engineering and Computer Sciences, University of California at Berkeley. Since then, CNN has become an extremely active field of researches to massive parallel computation, image processing, visual VLSI chips and vision processors. Written by one of the leading figures in the field, this is a lucid and comprehensive reference book for professionals, academic researchers and students. It covers almost all aspects of CNN including: local rules principles, structure and parameter design, continuous-time CNN, discrete-time CNN, fuzzy CNN, delay-type CNN, multi-layer CNN and multi-stage CNN. Also, a systematic classification system of different CNN image operations is presented based on major local rule class. Hundreds of CNN image operations together with their design processes were presented. The difference and equivalence between continuous-time and continuous-time CNN were formally formulated. Many figures are used to illustrate the functions of all CNN image operators. Every aspects of fuzzy CNN including theory, design, applications, learning algorithms and genetic algorithms were also included..

Computation and Cognition Toward a Foundation for Cognitive Science, Zenon W. Pylyshyn, 1986, , 292 pages. This systematic investigation of computation and mental phenomena by a noted psychologist and computer scientist argues that cognition is a form of computation, that the ....

Semantic networks an evidential formalization and its connectionist realization, Lokendra Shastri, 1988, , 222 pages. .

CNN A Paradigm for Complexity, Leon O. Chua, Jan 1, 1998, Computers, 320 pages. Revolutionary and original, this treatise presents a new paradigm of Emergence and Complexity, with applications drawn from numerous disciplines, including artificial life ....

Self-organization autowaves and structures far from equilibrium : proceedings of an international symposium, Pushchino, USSR, July 18-23, 1983, V. I. Krinsky, 1984, Science, 263 pages. .

Nitric oxide: roles in neuronal communication and neurotoxicity, Issue 731 roles in neuronal communication and neurotoxicity, Hiroshi Takagi, Noboru Toda, Robert D. Hawkins, 1994, Medical, 238 pages. This volume contains a collection of works presented at the 1993 Nitric Oxide-Roles in Neuronal Communication and Neurotoxicity Symposium held in Shizuoka, Japan. It presents a ....

CNN Reports: Hurricane Katrina State of Emergency, CNN News, Oct 1, 2005, Nature, 176 pages. Documents over a fourteen day period the destructive impact of Hurricane Katrina on the homes and businesses of Mississippi and Louisiana and the personal hardships and ....

How CNN fought the war a view from the inside, Perry McCoy Smith, 1991, History, 223 pages. Accounts of how CNN was able to broadcast live from Baghdad crucial moments of the conflict show how the war against Iraq revolutionized U.S. news coverage of the military.

Impulsive systems and control theory and applications, Tao Yang, Tao Yang (Ph.D.), 2001, Technology & Engineering, 281 pages. An impulsive control system contains a plant (usually a continuous-time dynamical system) and a control law. In the past ten years, many developments have occurred regarding ....

Our World Now 2 , Reuters, Jun 29, 2009, , 369 pages. This new Reuters anthology draws upon this unparalleled resource to document 2008, and the images cover the full range of news reporting - politics, commerce, conflict, the ....

Chaotic Communication Systems , Tao Yang, Jan 1, 2001, Chaotic behavior in systems, 276 pages. Chaotic Communication Systems.

Cellular image processing , Tao Yang, Tao Yang (Ph.D.), 2001, Computers, 281 pages. Cellular operations will play a critical role in designing and programming nano-scale computers. In this book a cellular operation is defined as an operation which uses ....

Hybrid computation , George A. Bekey, Walter J. Karplus, 1968, Mathematics, 464 pages. .