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efficient computing systems the central  
theme of which is borrowed from the  
analogy of biological neural networks.  
ANNs are also named as "artificial  
neural systems," parallel distributed

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processing systems," "connectionist systems."

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From its institution as the Neural Networks Council in the early 1990s, the IEEE Computational Intelligence Society has rapidly grown into a robust community with a vision for addressing real-world issues with biologically-motivated computational paradigms. The Society offers leading research in

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Dynamical Systems ...

The innovative part of the book, as it  
can be guessed from the title, is the

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association between neural network theory and fuzzy set systems. The basic idea is that what thinking machines are learning about is bound to be, in most cases, fuzzy, i.e., imprecise and not clearly defined.

Neuro-fuzzy - Wikipedia

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networks and fuzzy systems. However,  
developments of neural or fuzzy  
systems are not trivial. Neural networks

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are capable of approximating any multidimensional nonlinear functions and as such they can be very useful in nonlinear control [1][2]. But, until now there was no precise method for determination of proper neural network architecture ...

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A fuzzy neural network or neuro-fuzzy system is a learning machine that finds the parameters of a fuzzy system (i.e., fuzzy sets, fuzzy rules) by exploiting approximation techniques from neural



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computation and genetic algorithms.

Intelligent control - Wikipedia  
Written by one of the foremost experts  
in the field of neural networks, this is  
the first book to combine the theories

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and applications or neural networks and fuzzy systems. The book is divided...

Neural Networks and Fuzzy Systems  
Applications

Fuzzy logic is a reasoning methodology that resembles human decision making

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and deals with vague and imprecise information, while a neural network is a system inspired by biological neurons in the human brain and can perform computing tasks faster.

NEURAL NETWORKS AND FUZZY  
SYSTEMS - GBV

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networks and fuzzy systems ...

Neural networks and fuzzy logic systems are parameterised computational nonlinear algorithms for numerical processing of data (signals, images, stimuli). These algorithms can be either implemented on a general-purpose computer or built into a

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Fuzziness in Neural Networks -  
Tutorialspoint

An integrated examination of neural



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networks and fuzzy systems -- from the theoretical level of first principles and the applications level of adaptive fuzzy systems in control and signal processing.

Fuzzy neural network - Scholarpedia  
Fuzzy neural networks, or more or less

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equivalently, neurofuzzy systems, as they are frequently called, have a long history. The embryo was a paper on fuzzy neurons by my former student, Ed Lee, which was published in 1975.

1 Basic concepts of Neural Networks  
and Fuzzy Logic ...

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Pseudo outer product-based fuzzy neural networks (POPFNN) are a family of neuro-fuzzy systems that are based on the linguistic fuzzy model. Three members of POPFNN exist in the literature: POPFNN-AARS(S), which is based on the Approximate Analogical Reasoning Scheme

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## FUZZY NEURAL NETWORK THEORY AND APPLICATION

From its institution as the Neural  
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