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ELSEVIER Fuzzy Sets and Systems

65 (1994) 1-12 FUZZY sets and

systems Neural networks in designing

fuzzy systems for real world

applications S.K. Halgamuge*, M.

Glesner Darmstadt University of

Technology, Institute of

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Microelectronic Systems, Karlstr. 15,
D-64283 Darmstadt, Germany

Received September 1993; revised

November 1993 Abstract A special

multilayer perceptron architecture
known as FuNe I is successfully used
for generating fuzzy systems for a
number of real world applications.

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Neural networks in designing fuzzy systems for real world ...

The aim of this study is to develop a novel fuzzy clustering neural network (FCNN) algorithm as pattern classifiers for real-time odor recognition system.

In this type of FCNN, the input

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neurons activations are derived through fuzzy c mean clustering of the input data, so that the neural system could deal with the statistics of the measurement error directly.

Fuzzy Clustering Neural Networks for Real-Time Odor ...

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2. Evolving Fuzzy Neural Networks and Our Approach: EFNN-LN Fuzzy neural networks [14] are hybrid models that work in solving problems with knowledge extraction. These intelligent models can extract knowledge through fuzzy rules based on the dataset evaluated by the model. The synergy

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between artificial neural networks that provide forms of ...

Evolving Fuzzy Neural Network

Because neural networks also have the unique capacity (known as fuzzy logic) to make sense of ambiguous, contradictory, or incomplete data, they

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are able to use controlled processes when no exact models are available.

Real-Life Applications of Neural Networks | Smartsheet

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functions. They do this by utilizing two key research areas in computer science technology – fuzzy logic software development and neural network processing architecture. Fuzzy logic software attempts to account for real-world gray areas in the decision making structure of

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Computer software programs that go beyond simple yes or no choices.

What Are Fuzzy Neural Networks? - wiseGEEK

Written for undergraduate and graduate students, engineers, mathematicians, and computer

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scientists, Fuzzy Neural Networks for Real Time Control Applications presents the basics of fuzzy neural networks, in particular: type-2 fuzzy neural networks.

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The experimental result shows that the
fuzzy neural network prediction model
has strong function approximation
ability and is suitable for real estate

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price prediction depending on the quality of the available data.

Application of Fuzzy Neural Network for Real Estate ...

Fuzzy logic is largely used to define the weights, from fuzzy sets, in neural networks. When crisp values are not

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possible to apply, then fuzzy values are used. We have already studied that training and learning help neural networks perform better in unexpected situations. At that time fuzzy values would be more applicable than crisp values.

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Fuzziness in Neural Networks -

Tutorialspoint

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Gradient descent methods for type-2

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Fuzzy Clustering Neural Networks for
Real-Time Odor Recognition System .
By Bekir Karlık and Kemal Yüksek.

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Get PDF (0 MB) Abstract. The aim of this study is to develop a novel fuzzy clustering neural network (FCNN) algorithm as pattern classifiers for real-time odor recognition system. ...

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