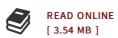




# New Backpropagation Algorithm with Type-2 Fuzzy Weights for Neural Networks

By Fernando Gaxiola

Springer-Verlag Gmbh Jun 2016, 2016. Taschenbuch. Condition: Neu. Neuware - In this book a neural network learning method with type-2 fuzzy weight adjustment is proposed. The mathematical analysis of the proposed learning method architecture and the adaptation of type-2 fuzzy weights are presented. The proposed method is based on research of recent methods that handle weight adaptation and especially fuzzy weights. The internal operation of the neuron is changed to work with two internal calculations for the activation function to obtain two results as outputs of the proposed method. Simulation results and a comparative study among monolithic neural networks, neural network with type-1 fuzzy weights and neural network with type-2 fuzzy weights are presented to illustrate the advantages of the proposed method. The proposed approach is based on recent methods that handle adaptation of weights using fuzzy logic of type-1 and type-2. The proposed approach is applied to a cases of prediction for the Mackey-Glass (for ô=17) and Dow-Jones time series, and recognition of person with iris biometric measure. In some experiments, noise was applied in different levels to the test data of the Mackey-Glass time series for showing that the type-2 fuzzy backpropagation approach obtains better behavior and tolerance...



## Reviews

Unquestionably, this is actually the very best work by any article writer. It usually does not price a lot of Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- Augustine Pfannerstill

This sort of pdf is everything and made me searching forward plus more. Better then never, though i am quite late in start reading this one. You may like just how the author compose this book.

-- Mae Jones

## Other Kindle Books



### New KS2 English SAT Buster 10-Minute Tests: Grammar, Punctuation & Spelling (2016 SATs & Beyond)

Coordination Group Publications Ltd (CGP). Paperback. Book Condition: new. BRAND NEW, New KS2 English SAT Buster 10-Minute Tests: Grammar, Punctuation & Spelling (2016 SATs & Beyond), CGP Books, CGP Books, This book of SAT Buster 10-Minute tests is a brilliant way to...



Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)

Createspace, United States, 2015. Paperback. Book Condition: New. Apoorva Dingar (illustrator). Large Print. 214 x 149 mm. Language: English. Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Klara is a little different from the other cows, because she has a very special...



#### A Dog of Flanders: Unabridged; In Easy-to-Read Type (Dover Children's Thrift Classics)

Dover Publications, 2011. Paperback. Book Condition: New. No Jacket. New paperback book copy of A Dog of Flanders by Ouida (Marie Louise de la Ramee). Unabridged in easy to read type. Dover Children's Thrift Classic. Reprint of original edition. Green edition. Mineola...



Pencil Drawing Techniques Box Set 2 in 1: Drawing for Beginners: 53 Outstanding Zentangle Patterns to Use in Your Own Masterpieces!: (With Pictures, 53 Outstanding Zentangle Patterns to Use in Your Own Masterpieces! Drawing, Zentangle,

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English. Brand New Book \*\*\*\*\*
Print on Demand \*\*\*\*\*.Pencil Drawing Techniques BOX SET 2 IN 1: Drawing For Beginners: 53 Outstanding Zentangle Patterns
To Use In Your Own...



### Pickles To Pittsburgh: Cloudy with a Chance of Meatballs 2

Atheneum Books for Young Readers, 2000. Paperback. Book Condition: New. No Jacket. New paperbook print book copy of Pickles to Pittsburgh: Cloudy with a Chance of Meatballs 2 written by Judi Barrett. Drawn by Ron Barrett. New York: Athenium Books for Young...



## The Trouble with Trucks: First Reading Book for 3 to 5 Year Olds

Anness Publishing. Paperback. Book Condition: new. BRAND NEW, The Trouble with Trucks: First Reading Book for 3 to 5 Year Olds, Nicola Baxter, Geoff Ball, This is a super-size first reading book for 3-5 year olds, with an engaging story, colourful pictures...