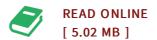




New Applications and Developments of Fuzzy Systems

By Ibrahim A. Hameed

GRIN Verlag Mrz 2012, 2012. Taschenbuch. Book Condition: Neu. 210x148x7 mm. This item is printed on demand - Print on Demand Neuware - Doctoral Thesis / Dissertation from the year 2010 in the subject Engineering - Artificial Intelligence, grade: PhD, Korea University, Seoul (College of Engineering - Dept of Industrial Systems and Information Engineering), course: Intelligence Control and Artificial Intelligence, language: English, abstract: Fuzzy Logic (FL) is a particular area of interest in the study of Artificial intelligence(AI) based on the idea that in fuzzy sets each element in the set can assume a value from 0 to 1, not just 0 or 1, as in classic or crisp set theory. The gradation in the extent towhich an element is belonging to the relevant sets is called the degree of membership. This degree of membership is a measure of the element's belonging to the set, and thus of the precision with which it explains the phenomenon being evaluated. A linguistic expression is given to each fuzzy set. The information contents of the fuzzy rules are then used to infer the output using a suitable inference engine. The key contribution of fuzzylogic in computation of information described in natural language made it applicable to avariety...



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