A fuzzy logic based approach for decision making

Authors
Harikesh Bahadur Yadav, Sumit Kumar, Yugal Kumar, Dilip Kumar Yadav

Publication date

2018/1/1

Journal

Journal of Intelligent & Fuzzy Systems

Volume

35

Issue

2

Pages

1531-1539

Publisher

IOS Press

Decision-making is very important activities in the various applications of science, engineering, and technology. A decision can be derived in three manners by these applications:(1) by developing a mathematical model,(2) taking domain experts advice,(3) developing an expert system. However, accurate mathematical model may not be developed for the domain that might not be completely interpreted. Moreover, the problem with the second method is that the human intervention is not possible all the time and the expenditure of hiring a domain expert may be high. Decision-making, using expert system or controller induces great interest among the researchers and professionals. Expert systems or controllers are capable enough to counter unpredictability, noise, and vagueness. Fuzzy set theory is commonly used in building the expert systems and controllers due to its ease and similarity to human reasoning ...

Description