

عنوان مقاله:

Research on Employing Fuzzy Composite Concepts based on Human Reasoning Through Singleton and Non-Singleton Fuzzification

محل انتشار:

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خلاصه مقاله:

Since the Fuzzy Logic Systems (FLSs) can provide appropriate tools on human reasoning, in this paper we will discuss about the new idea of Fuzzy Composite Concepts (FCCs) [11] which allow for a closer emulation of human reasoning in terms of integrating a large number of parameters into a single concept which is suitable to use in the higher level reasoning, FCCs allows us a closer approximation of Human Reasoning in the form of extensive data collection and conversion and to convert many parameters in a single concept to represent to the Higher Level Reasoning. FCCs are based on standard FLSs and clearly extend them to provide directly interpretable rule bases and improve flexibility and reusability of the overall FLS. Also we will exhibit the philosophy and logical concepts which are at the behind of FCCs and also discuss their applicability and field of utilize. We describe the implementation of FCCs and signify their benefits using real world examples based on our work in Ambient Intelligent Environments. Beside, we consider some new examples in this field and demonstrate their's results with MATLAB Fuzzy Logic Toolbox Simulation

کلمات کلیدی:

Composite Concepts; Fuzzy Logic Systems, Human reasoning, Matlab fuzzy toolbox, Ambient Intelligence, City selection

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