Abstract

For the complement of a fuzzy soft set as initiated by Maji, the set theoretic axioms of contradiction and exclusion are not valid. In this context, Neog and Sut have reintroduced the notion of complement of a fuzzy soft set and showed that all the properties of complement of a set in classical sense are satisfied by fuzzy soft sets also according to the proposed definition of
complement. In this paper we introduce a matrix representation of fuzzy soft set and extend Sanchez's approach for medical diagnosis using our notion of fuzzy soft complement.

**Reference**


**Index Terms**

Computer Science  
Fuzzy Systems

**Key words**
Fuzzy soft set
Fuzzy reference function
Membership value matrix

Fuzzy membership function