An Application of Interval Valued Intuitionistic Fuzzy Sets in Medical Diagnosis Using Logical Operators

T.Pathinathan[1],J.Jon Arockiaraj[2],P.Ilavarasi[2]

[1]Department of Mathematics, Loyola college,Chennai
[2]Department of Mathematics, St. Joseph's College, Cuddalore, India
Email: jonarockiaraj@gmail.com , contact.ilavarasi@gmail.com

Abstract

In this paper, it is proposed a new technique to diagnose the symptom of the disease using Interval Valued Intuitionistic fuzzy set (IVIFS) with logical operators. The membership and non-membership values are not always possible up to our satisfaction, but in deterministic (hesitation) part has more important role here, the fact that in decision making, particularly in case of medical diagnosis, there is a fair chance of the existence of a non-zero hesitation part at each moment of evaluation.