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## INTUITIONISTIC FUZZY $H$ -IDEALS OF BCI-ALGEBRAS WITH INTERVAL VALUED MEMBERSHIP AND NON MEMBERSHIP FUNCTIONS

N. PALANIAPPAN<sup>1</sup>, P. S. VEERAPPAN<sup>2</sup> AND R. DEVI<sup>3</sup>

<sup>1</sup>Professor of Mathematics,  
Alagappa University, Karaikudi - 630 003, Tamilnadu, India

<sup>2 3</sup> Department of Mathematics,  
K. S. R. College of Technology,  
Tiruchengode -637 215, Tamilnadu, India

### Abstract

The purpose of this paper is to define the notion of an interval valued Intuitionistic fuzzy  $H$ -ideal (briefly, an  $i - v$  IF  $H$ -ideal) of a BCI algebra. Necessary and sufficient conditions for an  $i - v$  intuitionistic fuzzy  $H$ -ideal are stated. A way to make a new  $i - v$  intuitionistic fuzzy  $H$ -ideal from old one is given.

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Key Words and Phrases : *BCI-algebra, H-ideal, i - v intuitionistic fuzzy Hideal.*

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