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## EVIDENCE THEORY: A SPECIAL CASE OF LEVEL II FUZZY SET THEORY

SUPRIYA KANHAIYA GANDHI

Department of Mathematics,  
New Arts Commerce and Science College, Ahmednagar, India

### Abstract

In this paper, we will look at Evidence theory with new view so that it can be visualized as special case of level II fuzzy set theory. Instead of concentrating in the increase in computational complexity, we will emphasis on the fact that though theory is developed by Dempster and Shafer, but is just a part of level II fuzzy set theory, a part of fuzzy set theory proposed by Lofti Zadeh. This formulations will prove very useful in extending the theory to fuzzy valued evidence theory and vice versa computational complexity of level 2 fuzzy sets can be reduced by using equivalent computations of Dempster Shafer Theory.

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Key Words : *Mass, Belief, Plausibility, Dempster-Shafer rule of combination, Level II fuzzy set.*

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