

SNS COLLEGE OF TECHNOLOGY



(An Autonomous Institution)
COIMBATORE-35

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ARTIFICIAL INTELLIGENCE FOR ELECTRICAL ENGINEERING

UNIT III

TOPIC: DEFUZZIFICATION METHODS





Defuzzification



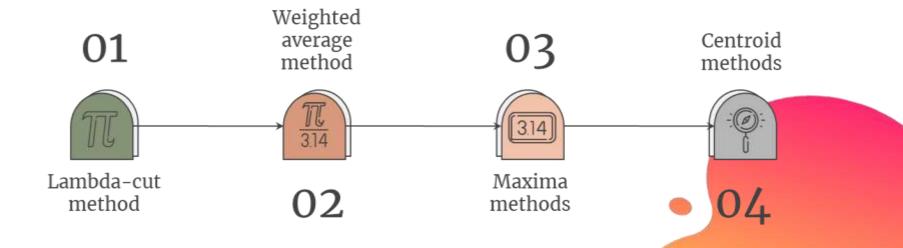
Empathy part...

Defuzzification is the process of obtaining a single number from the output of the aggregated fuzzy set. It is used to transfer fuzzy inference results into a crisp output.



Defuzzification Methods







Lambda - cut Method



Lambda-cut method is applicable to derive crisp value of a fuzzy set or relation. In many literature, Lambda-cut method is also alternatively termed as Alpha-cut method.



Weighted Average Method



This method is also alternatively called "Sugeno defuzzification" method. The method can be used only for symmetrical output membership functions.



Maxima Methods



- · Height method
- First of Maxima (FoM)
- Last of Maxima (LoM)
- Mean of Maxima(MoM)



Centroid Methods



- Center of Gravity Method (CoG)
- Center of Sum method (CoS)
- Center of Area method (CoA)





THANK YOU