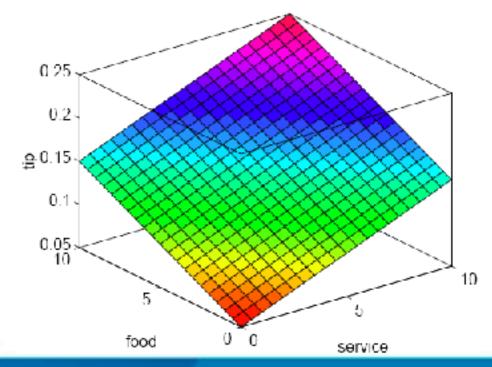
Ejemplo Sistema Difuso Mandani



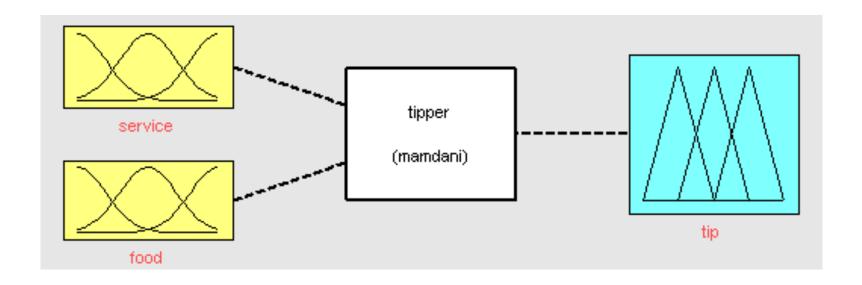
Dado un numero entre 0 y 10 que representa la calidad de la comida y del servicio de un restaurante, ¿Qué propina dar?

Solución no difusa

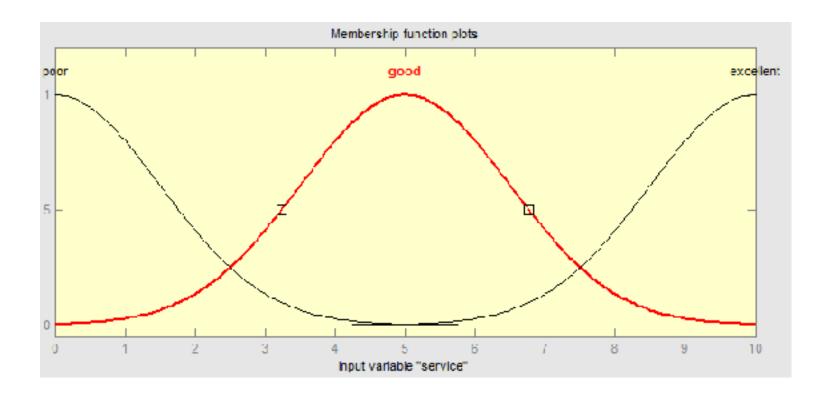
- Dados dos conjuntos de números entre 0 y 10, que representan respectivamente la calidad del servicio y la calidad de la comida en un restaurante, cual debería ser la propina?
- $\overline{}$ Tip = 0.20/20 * (service + food) + 0.05



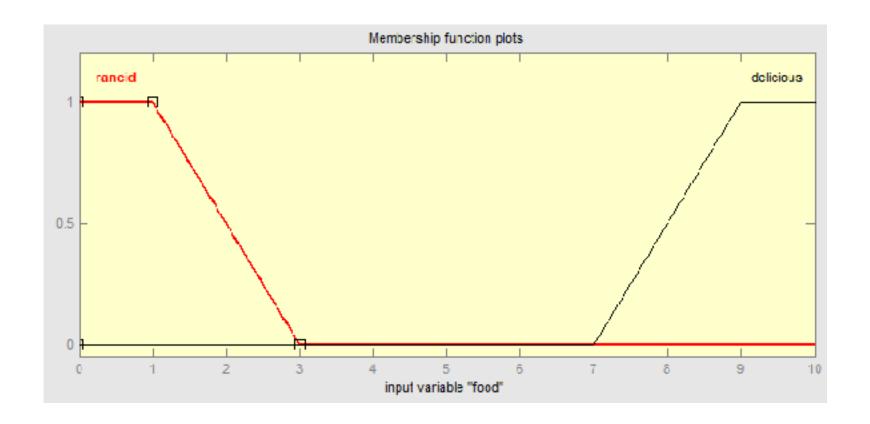
Enfoque Difuso



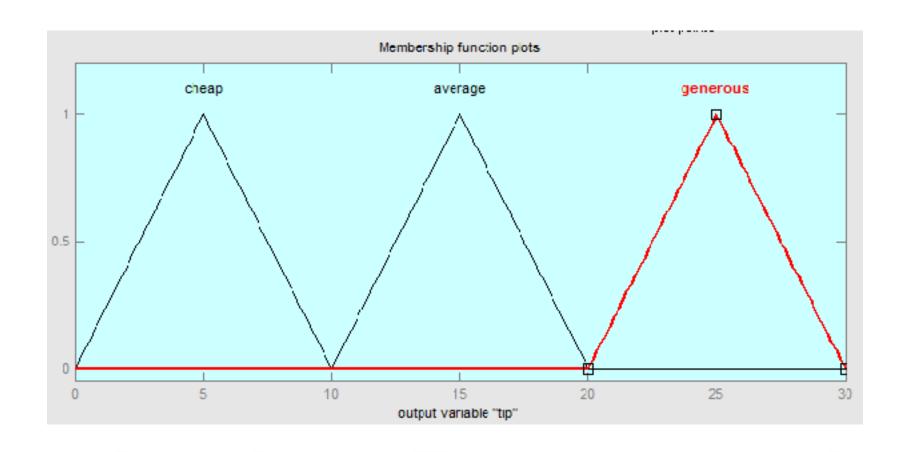
Enfoque Difuso



Variable difusa: Calidad de la comida



Variable difusa: Propina



Enfoque difuso – base de reglas

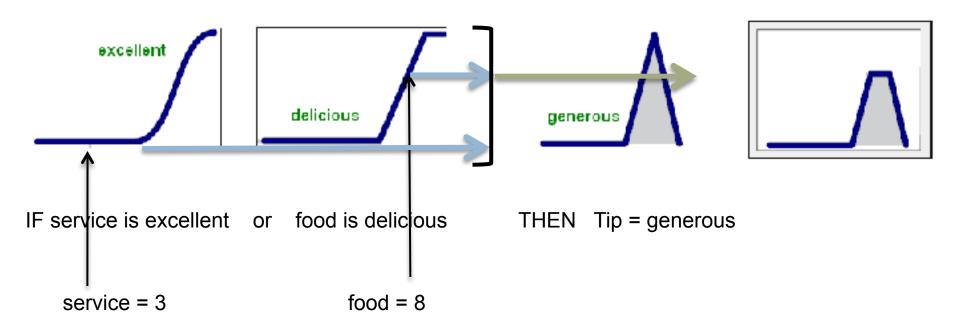
Tipping Problem — Both Service and Food Factors

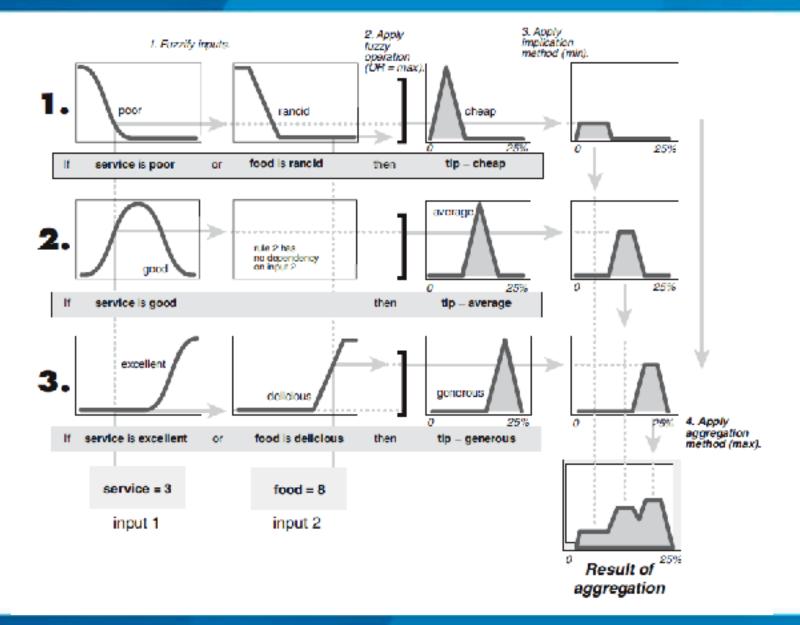
If service is poor or the food is rancid, then tip is cheap

If service is good, then tip is average

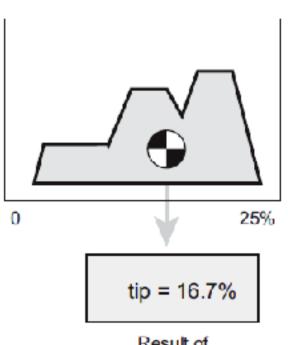
If service is excellent or food is delicious, then tip is generous

Composición





Defuzzificación

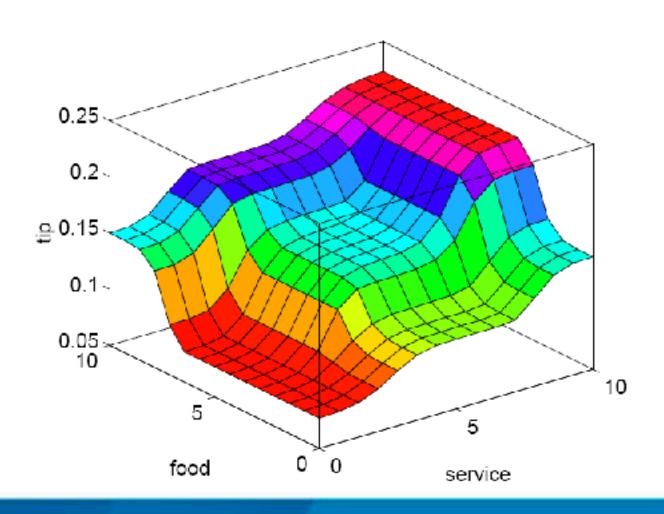


Defuzzify the aggregate output (centroid).

Result of

defuzzification

Conjunto de Soluciones



¿ Preguntas?

