Assignment 6

The following is a partial assignment that has been passed.

Do on 2020-03-11, 22:00 IST.

Assignment 6

You need to submit your solutions for this assignment by the due date.

Problem 1:
Find the intersection of fuzzy sets $A$ and $B$ for the universe of discourse $X = \{1, 2, 3, 4\}$ using $T$-norm $A$.

Solution:

- $A \cap B = \{1, 2, 3\}$
- $\mu_{A \cap B}(x) = \min\{\mu_A(x), \mu_B(x)\}$

Problem 2:
Find the intersection of fuzzy sets $A$ and $B$ for the universe of discourse $X = \{1, 2, 3, 4\}$ using $T$-norm $B$.

Solution:

- $A \cap B = \{1, 2\}$
- $\mu_{A \cap B}(x) = \min\{\mu_A(x), \mu_B(x)\}$

Problem 3:
Find the intersection of fuzzy sets $A$ and $B$ for the universe of discourse $X = \{1, 2, 3, 4\}$ using $T$-norm $C$.

Solution:

- $A \cap B = \{1\}$
- $\mu_{A \cap B}(x) = \min\{\mu_A(x), \mu_B(x)\}$

Problem 4:
Find the intersection of fuzzy sets $A$ and $B$ for the universe of discourse $X = \{1, 2, 3, 4\}$ using $T$-norm $D$.

Solution:

- $A \cap B = \emptyset$
- $\mu_{A \cap B}(x) = \min\{\mu_A(x), \mu_B(x)\}$

Problem 5:
Find the intersection of fuzzy sets $A$ and $B$ for the universe of discourse $X = \{1, 2, 3, 4\}$ using $T$-norm $E$.

Solution:

- $A \cap B = \{1\}$
- $\mu_{A \cap B}(x) = \min\{\mu_A(x), \mu_B(x)\}$

Problem 6:
Find the intersection of fuzzy sets $A$ and $B$ for the universe of discourse $X = \{1, 2, 3, 4\}$ using $T$-norm $F$.

Solution:

- $A \cap B = \emptyset$
- $\mu_{A \cap B}(x) = \min\{\mu_A(x), \mu_B(x)\}$

Please submit your solutions by the due date.

Feedback for Assignment 6

Assignment 6 goes well. The problems were clear and understandable. Solutions were provided for each problem. Please ensure to submit your solutions on or before the due date.

Thank you for your participation in Assignment 6.