

Нечеткие множества

$$\mathbb{A}, A \subset \mathbb{A}, a \in A$$

$$\mathbb{M}, M \tilde{\subset} \mathbb{M}, m \tilde{\in} M$$

Нечеткие множества

$$\mathbb{A}, A \subset \mathbb{A}, a \in A$$

$$(a, A) \xrightarrow{\xi} \{0, 1\}$$

$$\mathbb{M}, M \tilde{\subset} \mathbb{M}, m \tilde{\in} M$$

$$(m, M) \xrightarrow{\tilde{\xi}} [0, 1]$$
$$\mu_M(m), \mu_M : \mathbb{M} \rightarrow [0, 1]$$

Нечеткие множества

$$\mathbb{A}, A \subset \mathbb{A}, a \in A$$

$$(a, A) \xrightarrow{\xi} \{0, 1\}$$

$$A = \{a_1, a_2, \dots, a_n\}$$

$$\mathbb{M}, M \tilde{\subset} \mathbb{M}, m \tilde{\in} M$$

$$(m, M) \xrightarrow{\tilde{\xi}} [0, 1]$$
$$\mu_M(m), \mu_M : \mathbb{M} \rightarrow [0, 1]$$

$$M = \left(\frac{\mu(m_1)}{m_1} + \frac{\mu(m_2)}{m_2} + \dots + \frac{\mu(m_n)}{m_n} \right)$$

Нечеткие множества

$$\mathbb{A}, A \subset \mathbb{A}, a \in A$$

$$(a, A) \xrightarrow{\xi} \{0, 1\}$$

$$A = \{a_1, a_2, \dots, a_n\}$$

$$B \subset A \Leftrightarrow \forall b (b \in B \rightarrow b \in A)$$

$$\mathbb{M}, M \widetilde{\subset} \mathbb{M}, m \widetilde{\in} M$$

$$(m, M) \xrightarrow{\tilde{\xi}} [0, 1]$$
$$\mu_M(m), \mu_M : \mathbb{M} \rightarrow [0, 1]$$

$$M = \left(\frac{\mu(m_1)}{m_1} + \frac{\mu(m_2)}{m_2} + \dots + \frac{\mu(m_n)}{m_n} \right)$$

$$N \widetilde{\subset} M \Leftrightarrow \forall m \mu_N(m) \leq \mu_M(m)$$

Нечеткие множества

$$\mathbb{A}, A \subset \mathbb{A}, a \in A$$

$$(a, A) \xrightarrow{\xi} \{0, 1\}$$

$$A = \{a_1, a_2, \dots, a_n\}$$

$$B \subset A \Leftrightarrow \forall b (b \in B \rightarrow b \in A)$$

$$c \in A \cap B \Leftrightarrow c \in A \wedge c \in B$$

$$\mathbb{M}, M \widetilde{\subset} \mathbb{M}, m \widetilde{\in} M$$

$$(m, M) \xrightarrow{\tilde{\xi}} [0, 1]$$
$$\mu_M(m), \mu_M : \mathbb{M} \rightarrow [0, 1]$$

$$M = \left(\frac{\mu(m_1)}{m_1} + \frac{\mu(m_2)}{m_2} + \dots + \frac{\mu(m_n)}{m_n} \right)$$

$$N \widetilde{\subset} M \Leftrightarrow \forall m \mu_N(m) \leq \mu_M(m)$$

$$\mu_{M \widetilde{\cap} N}(m) = \mu_M(m) \widetilde{\wedge} \mu_N(m) =$$
$$T(\mu_M(m), \mu_N(m))$$

Нечеткие множества

$$\mathbb{A}, A \subset \mathbb{A}, a \in A$$

$$(a, A) \xrightarrow{\xi} \{0, 1\}$$

$$A = \{a_1, a_2, \dots, a_n\}$$

$$B \subset A \Leftrightarrow \forall b (b \in B \rightarrow b \in A)$$

$$c \in A \cap B \Leftrightarrow c \in A \wedge c \in B$$

$$c \in A \cup B \Leftrightarrow c \in A \vee c \in B$$

$$\mathbb{M}, M \widetilde{\subset} \mathbb{M}, m \widetilde{\in} M$$

$$(m, M) \xrightarrow{\tilde{\xi}} [0, 1]$$
$$\mu_M(m), \mu_M : \mathbb{M} \rightarrow [0, 1]$$

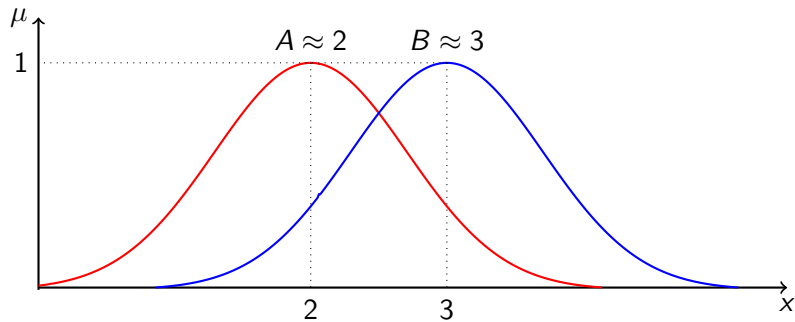
$$M = \left(\frac{\mu(m_1)}{m_1} + \frac{\mu(m_2)}{m_2} + \dots + \frac{\mu(m_n)}{m_n} \right)$$

$$N \widetilde{\subset} M \Leftrightarrow \forall m \mu_N(m) \leq \mu_M(m)$$

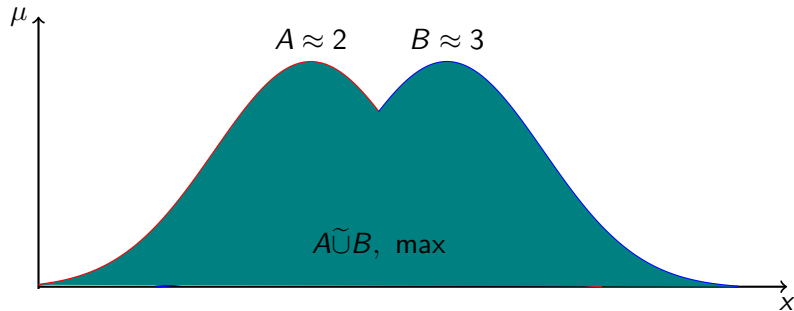
$$\mu_{M \widetilde{\cap} N}(m) = \mu_M(m) \widetilde{\wedge} \mu_N(m) =$$
$$T(\mu_M(m), \mu_N(m))$$

$$\mu_{M \widetilde{\cup} N}(m) = \mu_M(m) \widetilde{\vee} \mu_N(m) =$$
$$S(\mu_M(m), \mu_N(m))$$

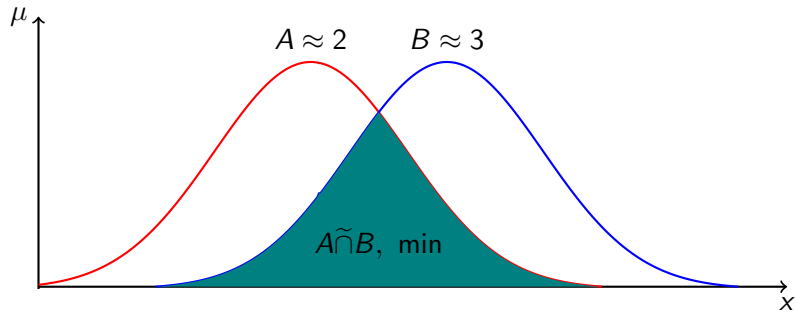
Объединение и пересечение



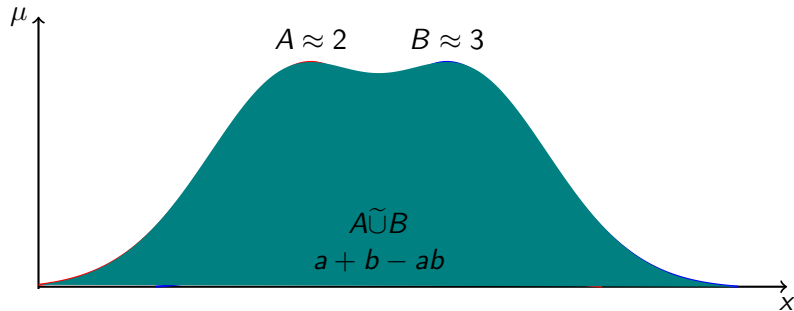
Объединение и пересечение



Объединение и пересечение



Объединение и пересечение



Объединение и пересечение

