

人工知能統論課題9 解答例

[課題 9-1]

$$\begin{aligned} I(4/8, 4/8) \\ &= 1/2 + 1/2 \\ &= 1 \end{aligned}$$

[課題 9-2]

$$\begin{aligned} \text{Reminder}(\text{Price}) \\ &= 4/8 * I(3/4, 1/4) + 4/8 * I(1/4, 3/4) \\ &= 7/8 \end{aligned}$$

$$\begin{aligned} \text{Gain}(\text{Price}) \\ &= 1 - 7/8 = 1/8 \end{aligned}$$

$$\begin{aligned} \text{Reminder}(\text{Clock}) \\ &= 2/8 * I(2/2, 0) + 3/8 * I(2/3, 1/3) + 3/8 * I(0, 3/3) \\ &= 5/16 \end{aligned}$$

$$\begin{aligned} \text{Gain}(\text{Clock}) \\ &= 1 - 5/16 = 11/16 \end{aligned}$$

$$\begin{aligned} \text{Reminder}(\text{Design}) \\ &= 3/8 * I(1/3, 2/3) + 3/8 * I(1/3, 2/3) + 2/8 * I(1/2, 1/2) \\ &= 7/8 \end{aligned}$$

$$\begin{aligned} \text{Gain}(\text{Design}) \\ &= 1 - 7/8 = 1/8 \end{aligned}$$

[課題 9-3]

