

cs3-end1

問 3 / Problem 3

3-1-1 暗い緑色 / Dark green

3-1-2 (1) rotate(-35) or rotate(325)

3-1-3 (2) resize((40, 80))

3-1-4 (3) rotate(0, translate=(100, -150))

3-1-5 (4) convert('L')

3-2

(1) open(file1, 'r')

(2) one_line in f

問 4 / Problem 4

4-1

(1) 分離超平面 / separating hyperplane

(2) かからない / shorter

(3) $(-1.5) * 2.0 + 2.5 * (-4.0) - 2.0 = -15.0$ Ans. -15.0

(4) 0

(5) (iii), (iv)

4-2 (ii)

問 5 / Problem 5

5-1

$$3 * 2 + 1 * (-1) + (-2) * 2 = 1$$

$$1 * 2 + (-2) * (-1) + (-1) * 2 = 2$$

$$(-2) * 2 + (-1) * (-1) + 5 * 2 = 7$$

Ans. 1, 2, 7

5-2

(1) 32 (2) 24 (3) カラー / Color

(4) 畳み込み / Convolution (5) 4 (6) 16

(7) (最大)プーリング / (Max) Pooling (8) 2 (9) 16 (10) 12 (11) 16
(12) rmsprop (13) categorical_crossentropy
(14) 25 (15) 過学習 / Overfitting (16) 14
(17) 4 (18) one-hot
(19) 4 (20) 45
(21) 2
(22) 汎化性能 / Generalization Performance (23) 11