Scaling

Tuesday, April 5, 2022 9:31 PM

	Area	Rooms
①	3000	3
②	2800	1
③	2700	3

manhattan dist
euclidean dist

① ③ dis-similarity

$(3000 - 2700) + (3-3)$

$300^2 + 0^2$

$= 90000$

① ③ $(3000 - 2700)^2$

$300^2 = 90,000$

② ③ $(2800 - 2700)^2 = 100^2 = 10000$

→ ③ ②

$(100)^2 + (2)^2$

$10000 + 4$

10004

Normalization → $[0, 1]$

Standardization → mean = 0, variance = 1

1 3 7 8

$$\frac{1}{N} \sum (mean - n)^2$$

ar = [- - - - -]

min = ar.min()

max = ar.max()

$$\frac{ar - min}{max - min}$$

[0 , 1]

ar → [5 (min) … 8 (max)]

ar - min = [min - min … max - min]

[0 … max - min]