**GS信任理论解决数据融合问题**

**臧泽林**

# 代码块1

# -\*- coding: utf-8 -\*-

"""

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as the program test for the agricuture program of Dr. du

自适应加权融合算法

Adaptive weighted fusion algorithm

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"""

import numpy as np

datawsd = np.array(([0.645, 0.103, 0.025, 0.148, 0.075, 0.018], # 初始化原料矩阵1

[0.382, 0.067, 0.460, 0.042, 0.115, 0.027]))

datawgd = np.array(([0.645, 0.103, 0.025, 0.148, 0.075, 0.018], # 初始化原料矩阵2

[0.053, 0.104, 0.019, 0.702, 0.058, 0.001]))

K1 = np.zeros((6, 6)) # 初始化K

for i in range(6): # 分别计算K

for j in range(6):

if i != j:

K1[i, j] = datawsd[0, i] \* datawsd[1, j]

k1sumA = 1-K1.sum() # 为k求和

K1B = np.zeros((6, 6)) # 初始化分母KB

for i in range(6): # 分别计算分母

K1B[i, 0] = datawsd[0, i] \* datawsd[1, i] \

+ datawsd[0, i] \* datawsd[1, 5] \

+ datawsd[1, i] \* datawsd[0, 5]

k1sumB = K1B.sum() # KB求和

out1 = np.zeros((1, 6))

for i in range(6):

out1[0, i] = ( # 计算输出

datawsd[0, i] \* datawsd[1, i]

+ datawsd[0, i] \* datawsd[1, 5]

+ datawsd[1, i] \* datawsd[0, 5] ) / k1sumB

print(out1)