$$X = \begin{bmatrix} f_{1}, f_{2}, f_{3}, f_{4} \\ \vdots \\ g_{n} \end{bmatrix}$$
 $X = \begin{bmatrix} f_{1}, f_{2}, f_{3}, f_{4} \\ \vdots \\ g_{n} \end{bmatrix}$

Jo 2, 1,0.. 1,2,... 0 + Cloulate Ershopy of thus group Einitial.

I

assume a weight
$$\overline{W} = [w_1, w_2, w_3, w_4]$$

$$\widehat{Y} = \overline{X} \cdot \overline{W} = \widehat{Y}_1 \cdot \widehat{Y}_2 \cdot \widehat{Y}_3 \cdot \dots \cdot \widehat{Y}_n$$

Sort shem from min to man

Calculate entropy for 6, and 6,2 EG, EGZ Total entropy = | EG, + | EG, |EG, | + |EG2 | (ETotal) Info Gain (161) = ETotal - Einitial

The PSO problem particle, (W, ti particlez (wz,tz) particlen (Wn, tr Objective furction obj-fun (w,t,

(i) The update furction: def update (): for x number of exerctions: entropies = entropy for 20 particles update each particle update gbest

return 9 best.