SOFT COMPUTING PARTICLE SWARM OPTIMIZATION

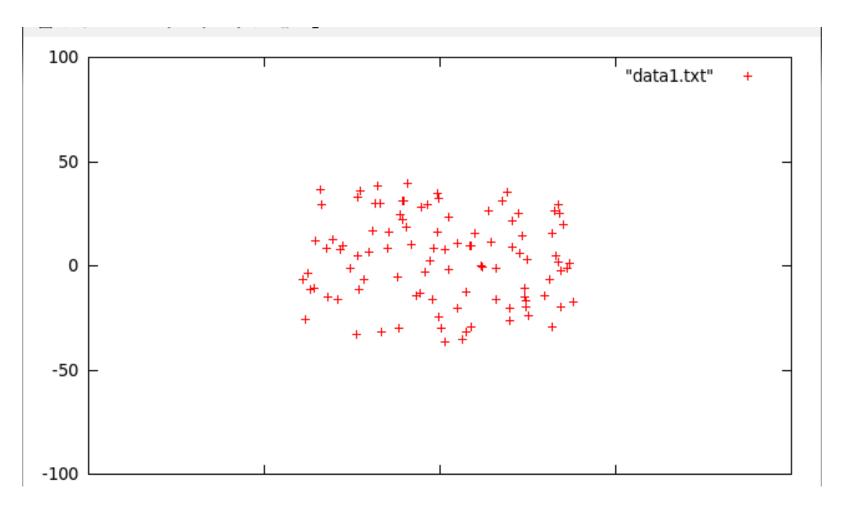
SPHERE FUNCTION & RASTRIGIN FUNCTION

M10159011 杜雪吟

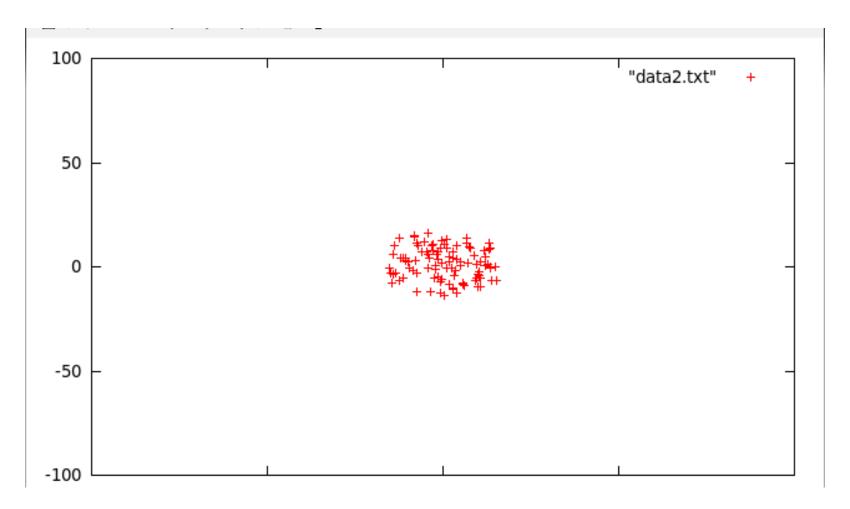
SPHERE FUNCTION - PARAMETERS

- Particle number: 100
- Search domain: -100 < X_i < 100
- C₁: 2
- C₂: 2
- Rand₁: 0.26159124447458926
- Rand₂: 0.056226893824293245
- V₀: [0, 0]
- W: 0
- Terminate condition: t = 100

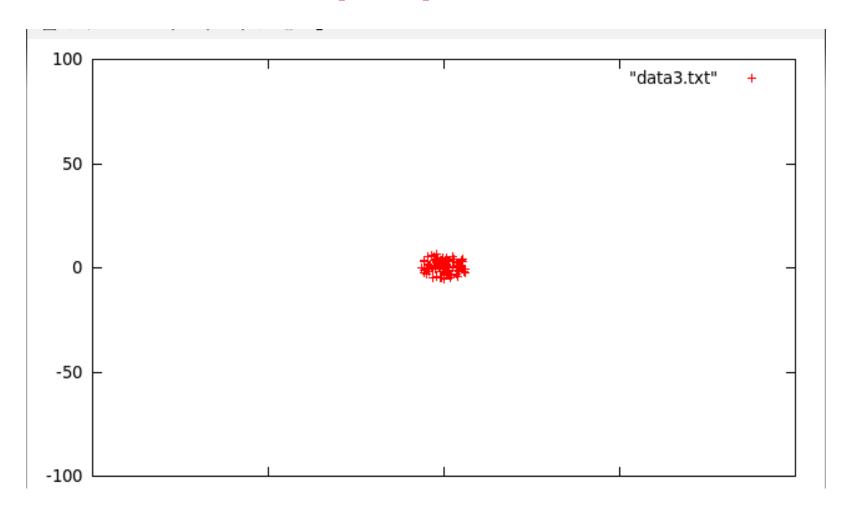
SPHERE FUNCTION - PROCESS (1/7)



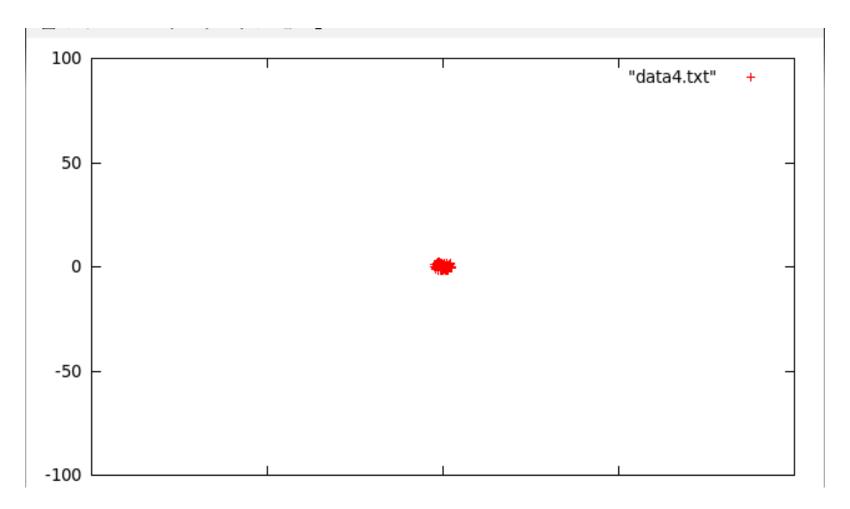
SPHERE FUNCTION - PROCESS (2/7)



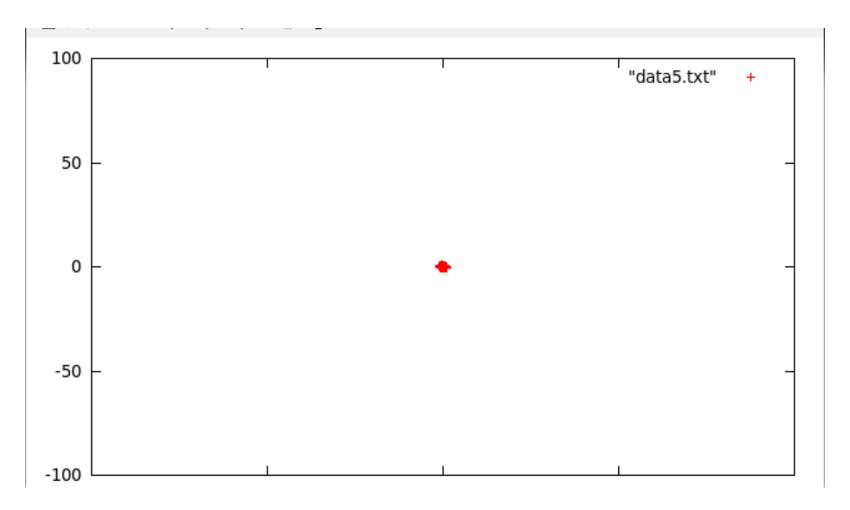
SPHERE FUNCTION - PROCESS (3/7)



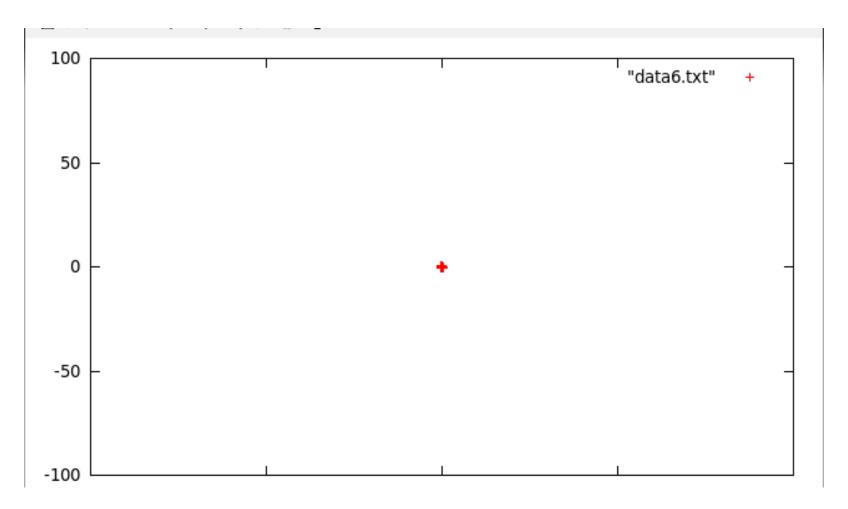
SPHERE FUNCTION - PROCESS (4/7)



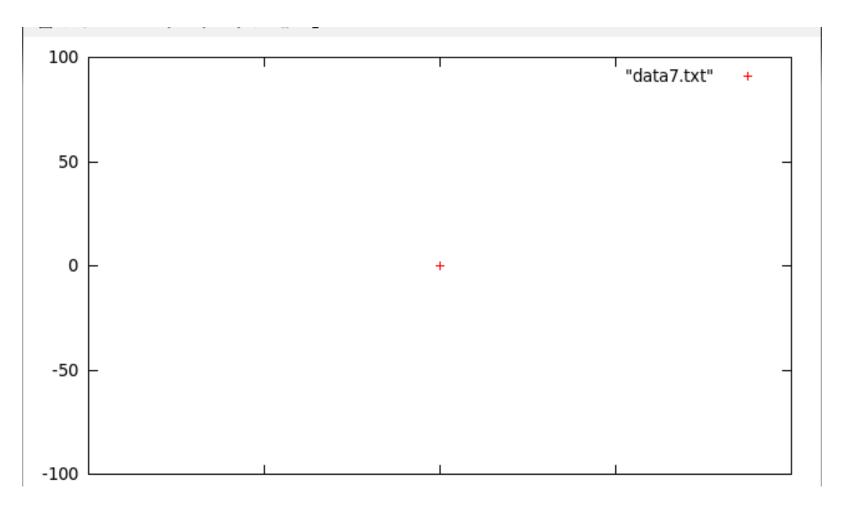
SPHERE FUNCTION - PROCESS (5/7)



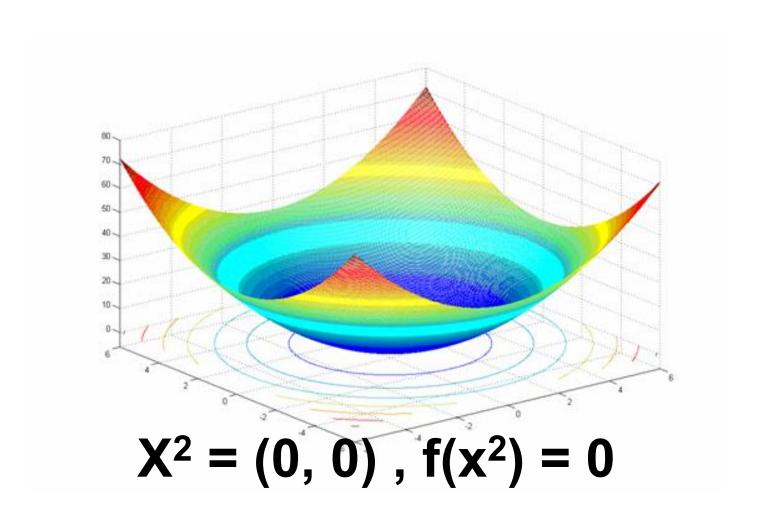
SPHERE FUNCTION - PROCESS (6/7)



SPHERE FUNCTION - PROCESS (7/7)



SPHERE FUNCTION - THE GLOBAL MINIMA

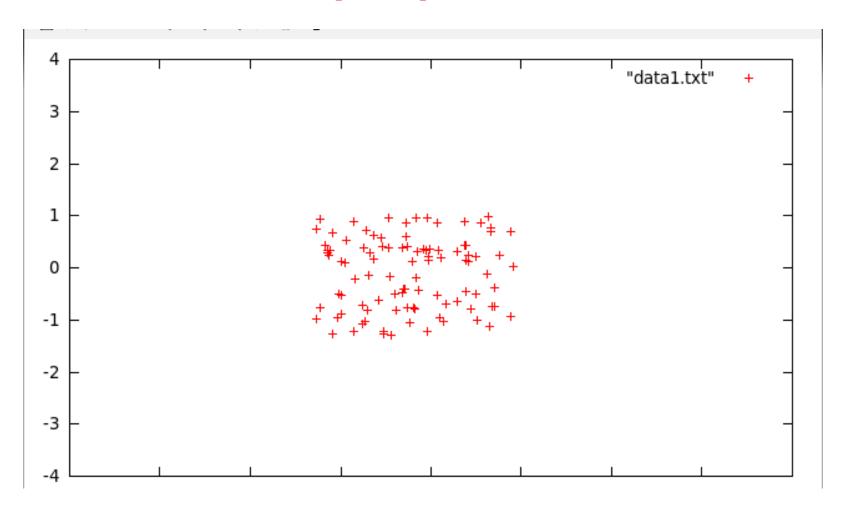


RASTRIGIN FUNCTION

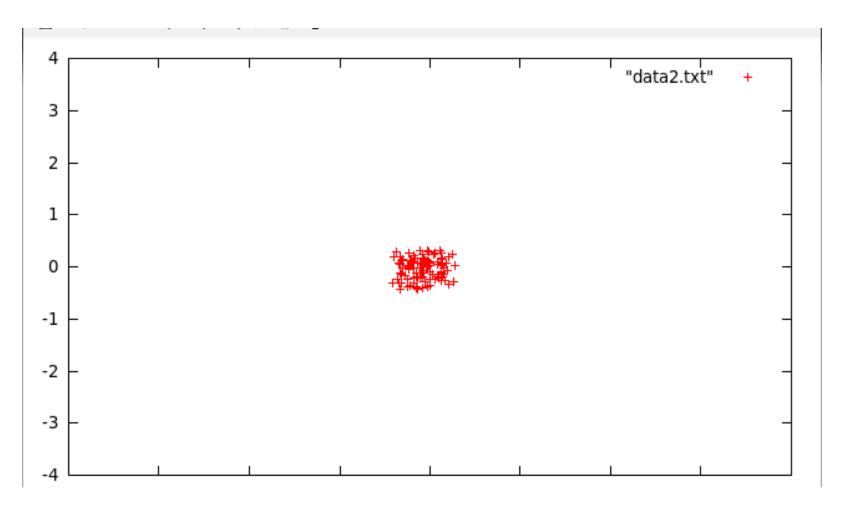
- PARAMETERS

- Particle number: 100
- Search domain: -4 < X_i < 4
- C₁: 2
- C₂: 2
- Rand₁: 0.28019110555769167
- Rand₂: 0.081576937926788
- V₀: [0, 0]
- W: 0
- Terminate condition: t = 100

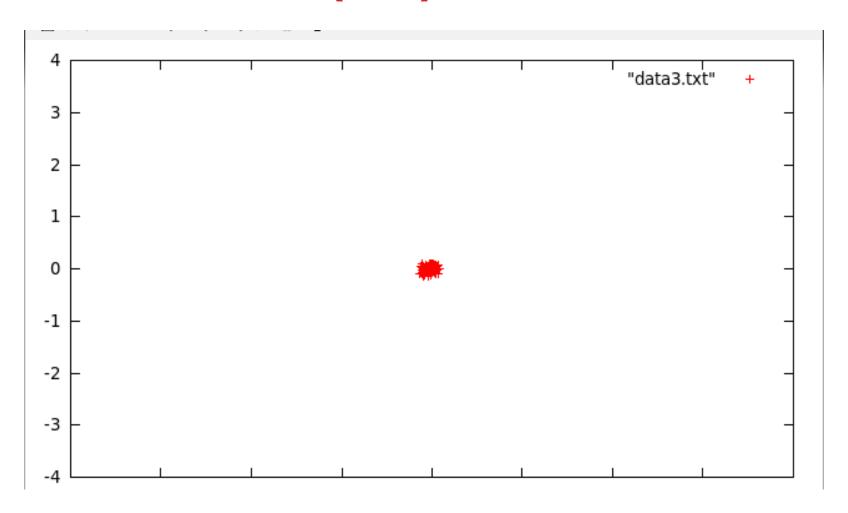
RASTRIGIN FUNCTION - PROCESS (1/7)



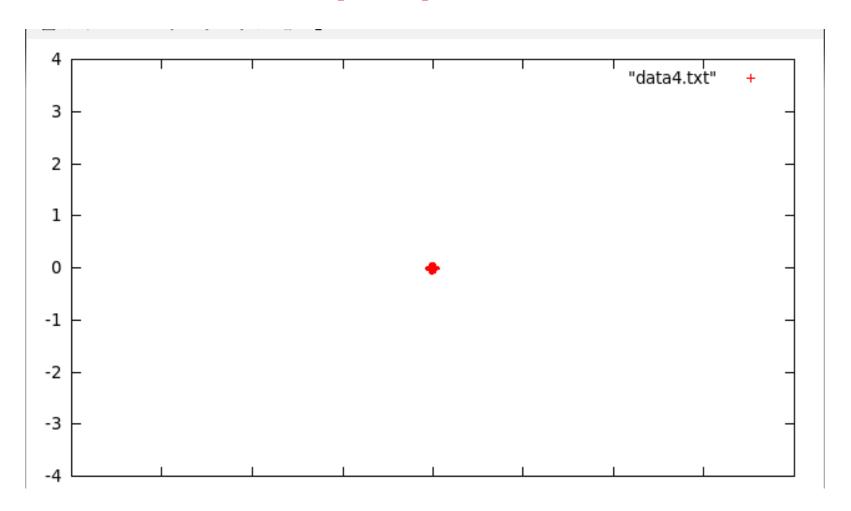
RASTRIGIN FUNCTION - PROCESS (2/7)



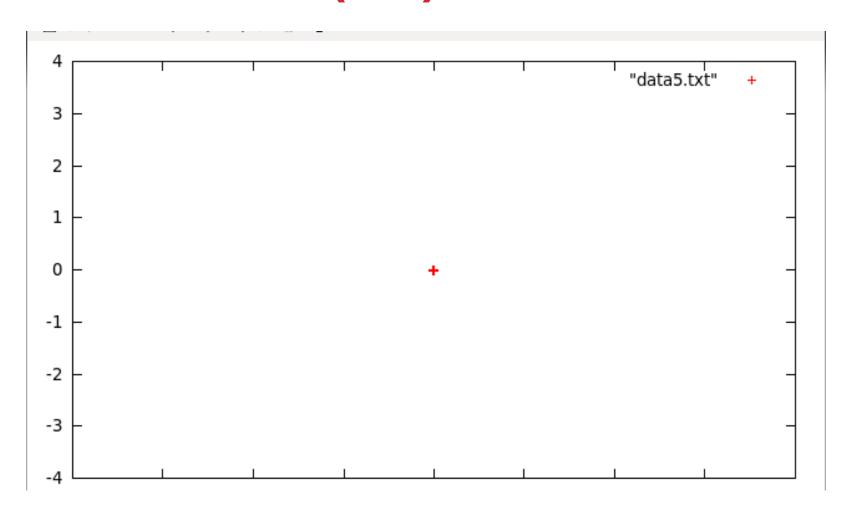
RASTRIGIN FUNCTION - PROCESS (3/7)



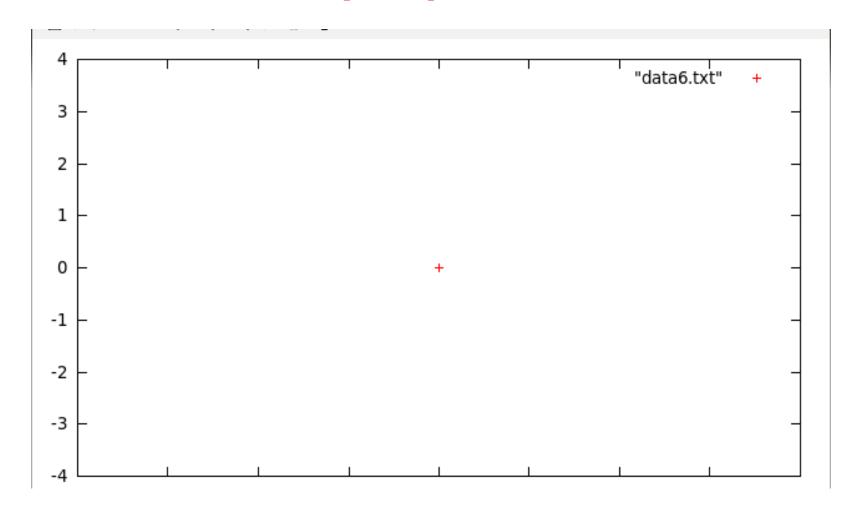
RASTRIGIN FUNCTION - PROCESS (4/7)



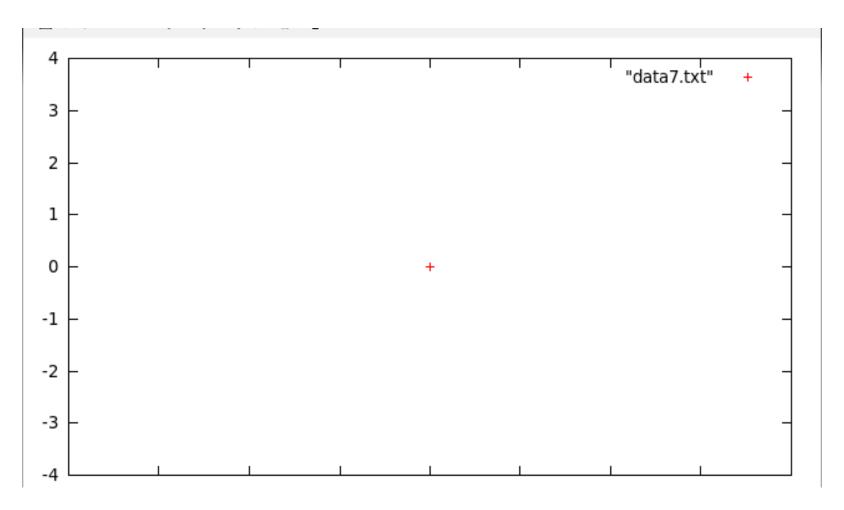
RASTRIGIN FUNCTION - PROCESS (5/7)



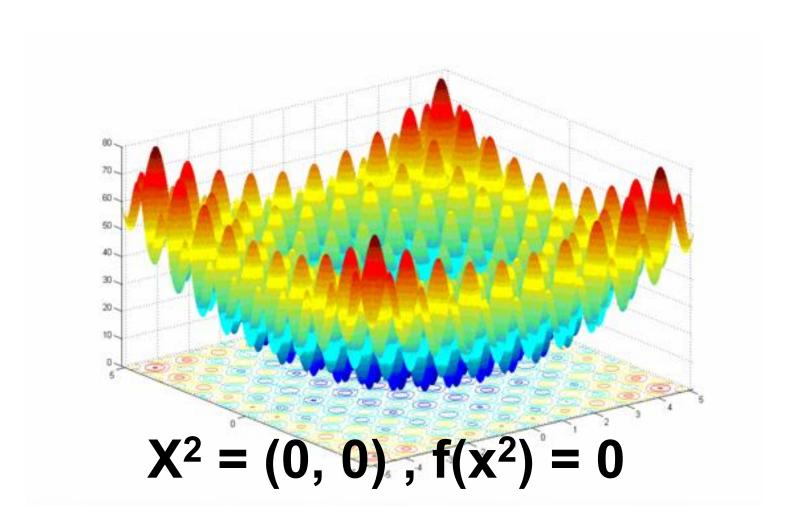
RASTRIGIN FUNCTION - PROCESS (6/7)



RASTRIGIN FUNCTION - PROCESS (7/7)



RASTRIGIN FUNCTION - THE GLOBAL MINIMA



THANK YOU! MONICA.SERVICE@GMAIL.COM