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"Optimización gravitatoria" y "Optimización por enjambre de partículas": comportamiento en funciones no-lineales [

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text (article)

Analítica

We propose two different heuristics for obtaining global optimum of several nonlinear functions, some multimodal. One of them is based on the optimization strategy called Space Gravitational Optimization where the solution space is seen as the relativistic space-time, in which the metric is modified by the gravitational field generated by the different particles embedded in it. The role of the gravitational pull is played by the objective function; the best would be in the hypothetical point where the greatest mass lies. As this position is unknown, it's necessary to measure the change of geometry. In the same way as in general relativity the change in geometry leads us to discover the largest mass, in this heuristic leads us to the global optimum. The second heuristic is well known as Particle Swarm Optimization, in it the particles will move guided by the effect of inertia and the attraction of leading members
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Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es