

Spiral optimization algorithm

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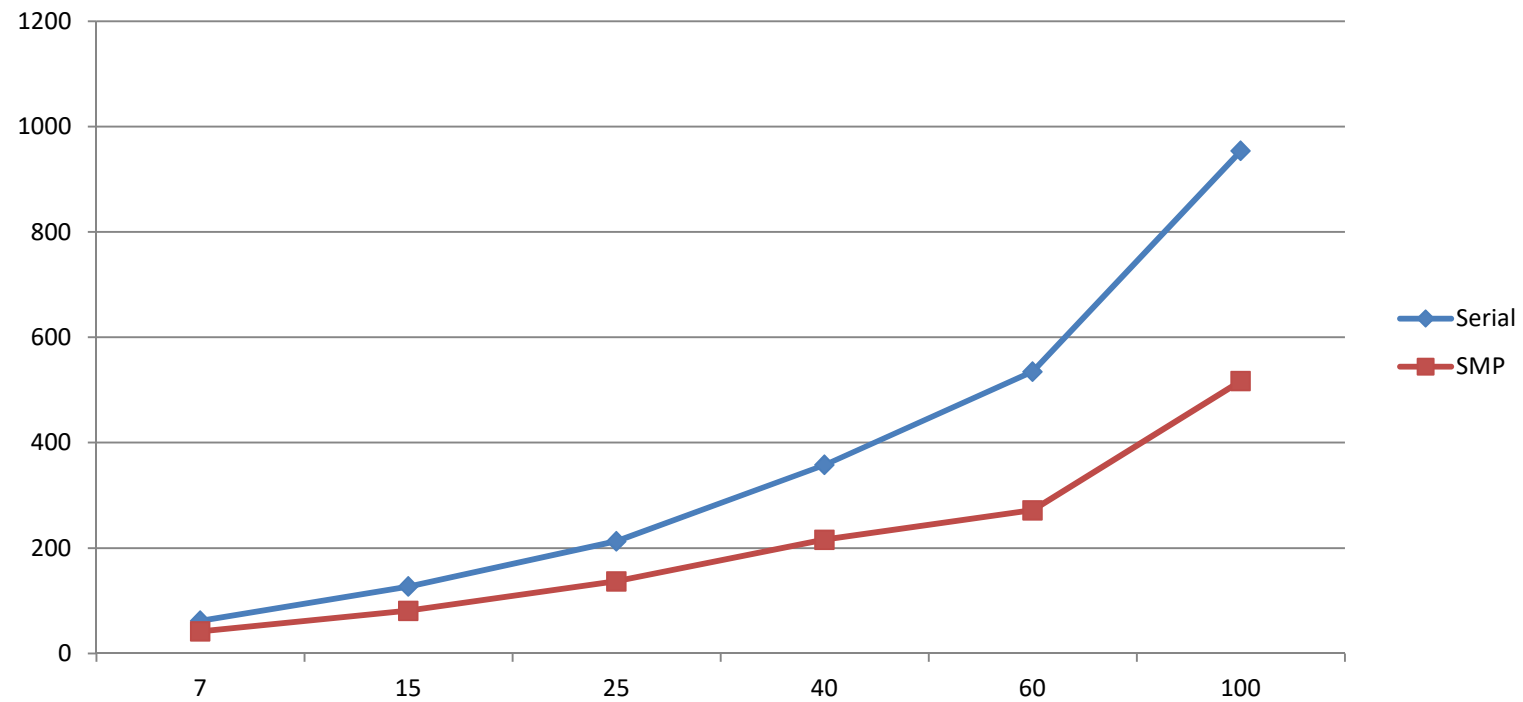
Nastavení hodnot

- Rotační matice =
$$\begin{matrix} 0 & 0 & 0 & 0 & -1 \\ 1 & 0 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 & 0 \end{matrix}$$
- $r = 0,99$
- Generování dat - std::mt19937_64

Ukázka výsledků

	Sphere	AbsSum	DeJong4	Rastrigin	Schwefel	Griewank	Masters
7	6.59e-28	0	1.516e-57	3.980e+00	-7.023e+03	2.536e-01	-7.000e+00
15	8.01e-28	1.443e-14	1.264e-61	1.094e+01	-1.223e+04	2.363e-01	-3.017e+00
25	4.2e-28	5.551e-15	3.034e-58	1.791e+01	-1.008e+04	2.880e-01	-2.000e+00
40	4.1e-29	7.994e-15	1.528e-57	1.293e+01	-1.109e+04	5.013e-01	-2.738e+00
60	2.08e-28	6.661e-15	4.283e-58	1.791e+01	-7.773e+03	3.961e-01	-2.952e+00
100	7.89e-31	1.865e-14	7.690e-58	2.419e+01	-1.225e+04	1.501e-01	-3.476e+00
optimum	0	0	0	0	-3.352e+03	0	-7.000e+00

Serial vs SMP – 100 dimenzí



Literatura

- https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6083926&fbclid=IwAR32Cab7lKoW0luOuWtbpeJm_Yb0XUqPaLsZ4z4CgdInJV7kLigcYlscrTA&tag=1
- https://en.wikipedia.org/wiki/Spiral_optimization_algorithm

Děkuji za pozornost