Simple Particle Swarm Optimization as a description of society

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1 Introduction

`test`
test

$$x_i(0) \in \mathbb{R}^n$$
$$v_i(0) = \vec{0}$$
$$v_i(t+1) = \begin{cases} & c_c r_1[p_{best} - x_i(t)] + \\ \omega v_i(t) + & c_s r_2[g_{best} - x_i(t)] + \\ & c_r r_3[\Phi - x_i(t)] \end{cases}$$
$$x_i(t+1) = x_i(t) + v_i(t+1)$$