

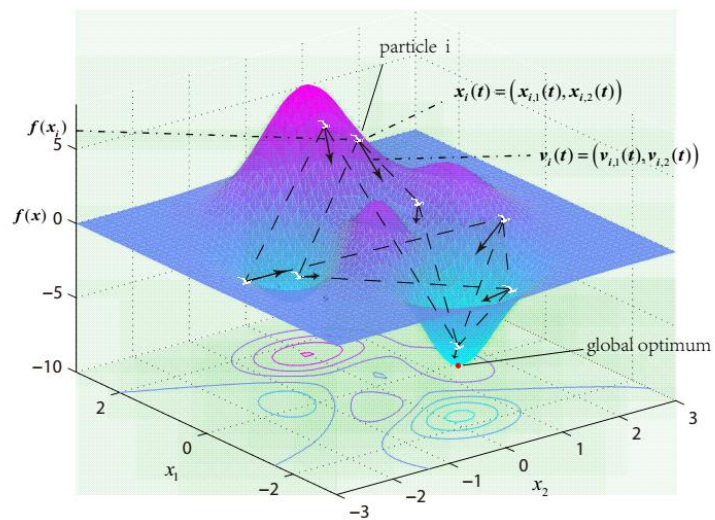


RESEARCH SEMINAR

Thursday Feb 25, 2016

2-3 pm

in the ICT Meeting Room (ICT 3-98)



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SELECTIVELY-INFORMED PSO: NETWORK SCIENCE AND OPTIMIZATION

Particle Swarm Optimization (PSO), simulating the collective behaviors in nature, is an efficient optimization algorithm for solving complex problems and has attracted considerable attention in the past two decades. In the original PSO and its variants, all particles have the same learning strategy, ignoring the intrinsic heterogeneity of individual behavior. Here we represent the population structure of the swarm with a heterogeneous network and incorporate a heterogeneous learning strategy, leading to a new algorithm – Selectively-informed Particle Swarm Optimization (SIPSO). In this seminar, I will talk about our ongoing work with this new SIPSO.