

***Brownian Agents And Active Particles Collective Dynamics In The
Natural And Social Sciences Springer Series In Synergetics***



Brownian Agents And Active Particles

Brownian Agents and Active Particles: Collective Dynamics in the Natural and Social Sciences by Frank Schweitzer The field discussed by the book of Frank Schweitzer has been recently popularized by a novel of Michael Crichton: "Prey".

Brownian Agents and Active Particles: Collective Dynamics ...

The book demonstrates that Brownian agent models can be successfully applied in many different contexts, ranging from physicochemical pattern formation, to active motion and swarming in biological systems, to self-assembling of networks, evolutionary optimization, urban growth, economic agglomeration and even social systems.

Brownian Agents and Active Particles - Collective Dynamics ...

We note that Brownian agents with just an internal energy depot in this book are mainly called active particles – if other, agent features will be neglected. This means a rather “simple” type of agent that does not deny its origin from the physical world, and therefore has also been denoted as a particle agent [124].

Brownian Agents and Active Particles: Collective Dynamics ...

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Brownian Agents and Active Particles: Collective Dynamics ...

Complex systems and agent models -- 2. Active particles -- 3. Aggregation and physicochemical structure formation -- 4. Self-organization of networks -- 5. Tracks and trail formation in biological systems -- 6. Movement and trail formation by pedestrians -- 7. Evolutionary optimization using Brownian searchers -- 8.

Brownian agents and active particles : collective dynamics ...

Abstract. We review theoretical models of individual motility as well as collective dynamics and pattern formation of active particles. We focus on simple models of active dynamics with a particular emphasis on nonlinear and stochastic dynamics of such self-propelled entities in the framework of statistical mechanics.

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