

Literature Review on Related Work

[1] (review, compare to other works...)

Papers Involving Stochastic Dynamics

[2]

Papers Involving Deterministic Dynamics

[3] [4] (Cucker-Smale) [5] [6] [7] [8] (Cucker-Smale)

Theoretical Papers

[2] (existence of our type of optimal controls)

[9] (optimality conditions, convergence to mean field)

[10] (well posedness of the mean field equation and the microscopic model, large time behaviour and consensus formation)

[11] (existence and regularity of the solution of the OCP, well posedness of forward problem)

[5] (convergence of microscopic to macroscopic OCP, gamma limit)

[6] (compare to above)

[7] (existence and consistency of mean field OCP, gamma convergence)

[8] (well posedness of the constrained Cucker-Smale equation)

[12] (some convergence results)

Numerical Papers

[2] (Chang Cooper, Finite Volumes, finite differences, Monte Carlo,...),

[3] (Compass search method, fmincon)

[13] (steady state fokker - planck only)

[4] (comparing two control approaches, stochastic approximation of interaction, iterative solving with transport and interactions step)

[14] (strang splitting scheme, semi Lagrangian, finite volume)

[15] (compare to [14], this one is older!)

[10] (implicit finite difference for inverse distribution)

[12] (Galerkin scheme, split transport and diffusion, iterative)

Leader-Follower Interaction

[3] [16] (compare to [13]) [14]

Relevant Boundary Conditions

[2] (no flux) [10] (no flux) [11] (periodic boundary data)

Control Types

[2] (flow control)

[3] (minimizing total mass of followers)

[13] (control via interaction term)

[4] (control function vs control region, sparse control, flocking)

[16] (embedded in microscopic interactions)

[9] (through interaction term)

[14] (control from external agents)

[15] (control from external agents)

[11] (flow control)

[5] (flow control)

[6] (external agents, sparse)

[7] (flow control)

[8] (flow control)

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