Wasserstein gradient flows and applications to crowd motion

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In this talk we are interested in solving cross-diffusion systems, for example coming from the modelling of two populations subject to a commun congestion. We will show that the theory of Wasserstein gradient flows provides a good framework to study these systems. Then, we will present that by perturbations techniques more general systems can be handled as diffusive Lokta-Volterra systems or diffusive SIR model.