Mini project for Tucker Balch

How does predator behavior affect optimal prey behavior?

Find a simulator or game environment in which you can simulate predator and prey animals.  Also define the prey behavior in such a way that it is amenable to refinement using Genetic Algorithms.  Hand code fixed predator behavior allow prey behavior to evolve, characterize it.  Change the predator behavior.  Repeat.  I’m especially interested to see under which conditions does “schooling” or “herding” behavior arise in the prey.