Mathematical Biology and Game Theory

Guest Editors:

Dr. Mark Broom

Dr. Igor Erovenko

Dr. Jan Rychtar

Dr. Shan Sun

Deadline for manuscript submissions:
closed (31 October 2018)

Message from the Guest Editors

Dear Colleagues,

We are seeking manuscripts that build and/or analyze game-theoretical models of biological scenarios. We welcome theoretical papers analyzing evolutionary dynamics, adaptive dynamics, evolutionarily stable strategies, and other game-theoretical notions related to mathematical biology. We also solicit papers that apply game theory directly to specific biological problems. Manuscripts applying game-theory to mating, sex allocation, signaling, food competition and foraging in general, the evolution of cooperation, hierarchy formation, predator–prey and host–parasite interactions and coevolution, coevolution of mutualists, epidemics and cancer biology modeling, and speciation are especially welcome.

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Special Issue