

# Analytical and Dynamic analysis of a Prey-Predator Model

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**Abstract:** *Mathematical and dynamic analysis of the Prey-Predator model in the presence of Alternative prey with impulsive state feedback control, and Predator-Prey process extended their application and have given rise to system which represents more real different biological issues that appear in the context of interacting species. Our aim in this paper is to give a state of the art review of recent Predator-Prey models which include some more interesting properties such that Allee effect, fear effect, immigration etc. We generate the qualitative results obtained for each of them.*

**Keywords:** Mathematical and dynamic analysis

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