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Behavioral Ecology. In animal conflicts, such as territory or food source defense, the success of one animal's chosen strategy depends on the strategies of the other

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individuals involved. Because of this, animal conflicts can be modeled after simple games, such as "Rock, Paper, Scissors," in which the outcome of the game depends on which strategies each player chooses.

Behavioral Ecology: Game Theory I

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SparkNotes

While game theory originally addressed zero-sum games wherein the loss of one resulted in the gain of another, it now has wide-ranging applications for animal behavior. The concepts of game theory that are so fundamental to modern animal behavior science include conditional costs

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and benefits (my costs and benefits of being social are relative to your costs and benefits of being social), rules of thumb, and iterated versus non-iterated interactions, which are directly applicable to practical ...

Game Theory - an overview |

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ScienceDirect Topics

Evolutionary game theory (EGT) is the application of game theory to evolving populations in biology. It defines a framework of contests, strategies, and analytics into which Darwinian competition can be modelled. It originated in 1973 with John Maynard Smith and

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George R. Price's formalisation of contests, analysed as strategies, and the mathematical criteria that can be used to predict the ...

Evolutionary game theory - Wikipedia
Game theory is the study of mathematical models of strategic interaction among

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rational decision-makers. It has applications in all fields of social science, as well as in logic, systems science and computer science. Originally, it addressed zero-sum games, in which each participant's gains or losses are exactly balanced by those of the other participants.

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Game theory - Wikipedia

Another thing that I want to point out about evolutionary game theory is that it can actually help us predict the traits we would expect to see in populations.

Evolutionary game theory predicts the appearance of evolutionary stable strategies, or behaviors that tend to persist

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within a population once they are prevalent. So let's think about this in terms of a complex behavior like altruism. So imagine that we have two groups of monkeys.

Evolutionary game theory (video) | Khan Academy

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This video is a response to Patrick Forber's lecture on the Evolution of Animal behavior. Video provides a brief summary of concepts such as altruism and two factor models of game theory for animal ...

Game Theory Model for Animal Behavior

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Game theory can be used either to explain existing behavior or to improve strategies: The first is especially applied by sciences which analyze long-term situations, like biology or sociology. In animality, for example, one can find situations; where cooperation has developed for the sake of mutual benefits. This is a crucial tool in

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sciences like economics.

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Game Theory/Strategic Behavior

Instructor M. Foley. Study of strategic situations in theory and practice. Course begins with the concept of Nash equilibrium and covers refinements of it, addressing ideas such as mixed strategies, preemption, wars of attrition, commitment,

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individual depends on the strategies exhibited by others--has proven a powerful tool in uncovering the forces shaping otherwise mysterious behaviors. In this volume, the first since 1982 devoted to evolutionary game theory, leading researchers describe applications of the theory to diverse types of behavior,

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providing an overview of recent discoveries and a synthesis of current research. The volume begins with a clear introduction to game theory and its explanatory scope. This is followed by a series of chapters on the use of game theory to understand a range of behaviors: social foraging, cooperation, animal

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contests, communication, reproductive skew and nepotism within groups, sibling rivalry, alternative life-histories, habitat selection, trophic-level interactions, learning, and human social behavior. In addition, the volume includes a discussion of the relations among game theory, optimality, and quantitative genetics, and

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an assessment of the overall utility of game theory to the study of social behavior. Presented in a manner accessible to anyone interested in animal behavior but not necessarily trained in the mathematics of game theory, the book is intended for a wide audience of undergraduates, graduate students, and

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professional biologists pursuing the evolutionary analysis of animal behavior.

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evolutionary analysis of animal behavior.

The principles of game theory apply to a wide range of topics in biology. This book presents the central concepts in evolutionary game theory and provides an authoritative and up-to-date account. The focus is on concepts that are important for

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biologists in their attempts to explain observations. This strong connection between concepts and applications is a recurrent theme throughout the book which incorporates recent and traditional ideas from animal psychology, neuroscience, and machine learning that provide a mechanistic basis for behaviours

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shown by players of a game. The approaches taken to modelling games often rest on idealized and unrealistic assumptions whose limitations and consequences are not always appreciated. The authors provide a novel reassessment of the field, highlighting how to overcome limitations and identifying future

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directions. Game Theory in Biology is an advanced textbook suitable for graduate level students as well as professional researchers (both empiricists and theoreticians) in the fields of behavioural ecology and evolutionary biology. It will also be of relevance to a broader interdisciplinary audience including

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evolutionary game theory, where strategies are not chosen through rational analysis, but emerge by virtue of being successful. This is the side of game theory that is most relevant to biology; it also helps to explain how human societies evolve. Aimed at students who have studied basic calculus and some differential equations, Game

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together, how they transfer information, how they make decisions and synchronize their activities, and how they build collective structures. Sumpter constructs a unified appreciation of how different group-living species coordinate their behaviors and why natural selection has produced these groups. For the first time,

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understanding human social behavior.

Containing a wealth of accessible examples as well as qualitative and quantitative features, *Collective Animal Behavior* will interest behavioral ecologists and all scientists studying complex systems.

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Conceptual Breakthroughs in Ethology and Animal Behavior highlights, through concise summaries, the most important discoveries and scientific revolutions in animal behavior. These are assessed for their relative impact on the field and their significance to the forward motion of the science of animal behavior. Eighty short

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essays capture the moment when a new concept emerged or a publication signaled a paradigm shift. How the new understanding came about is explained, and any continuing controversy or scientific conversation on the issue is highlighted. Behavior is a rich and varied field, drawing on genetics, evolution,

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physiology, and ecology to inform its principles, and this book embraces the wealth of knowledge that comes from the unification of these fields around the study of animals in motion. The chronological organization of the essays makes this an excellent overview of the history of animal behavior, ethology, and behavioral

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ecology. The work includes such topics as Darwin's role in shaping the study of animal behavior, the logic of animal contests, cognition, empathy in animals, and animal personalities. Succinct accounts of new revelations about behavior through scientific investigation and scrutiny reveal the fascinating story of

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All of life is a game, and evolution by natural selection is no exception. The evolutionary game theory developed in

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this 2005 book provides the tools necessary for understanding many of nature's mysteries, including co-evolution, speciation, extinction and the major biological questions regarding fit of form and function, diversity, procession, and the distribution and abundance of life.

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developed based on Darwin's postulates leading to the concept of a fitness generating function (G-function). G-function is a tool that simplifies notation and plays an important role developing Darwinian dynamics that drive natural selection. Natural selection may result in special outcomes such as the

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evolutionarily stable strategy (ESS). An ESS maximum principle is formulated and its graphical representation as an adaptive landscape illuminates concepts such as adaptation, Fisher's Fundamental Theorem of Natural Selection, and the nature of life's evolutionary game.

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Striking the right balance between necessary mathematics and practical applications, this book shows how game theory can be used in real life, not just in mathematical models. It helps readers improve their strategic thinking, define games based on actual situations, model games with payoffs and probabilities, and

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