

Evolutionary Game Theory Natural Selection And Darwinian Dynamics

In biology, evolution is change in the heritable characteristics of biological organisms over generations due to natural selection, mutation, gene flow, and genetic drift. Also known as descent with modification. Over time these evolutionary processes lead to formation of new species (speciation), changes within lineages (anagenesis), and loss of species (extinction). "Evolution" is also another name for evolutionary biology, the subfield of biology concerned with studying evolutionary processes that produced the diversity of life on Earth. Variation of traits, both genotypic and phenotypic, exists within all populations of organisms. However, some traits are more likely to facilitate survival and reproductive success. Thus, these traits are passed on to the next generation. These traits can also become more common within a population if the environment that favours these traits remains fixed. If new traits become more favoured due to changes in a...

Darwinian literary studies evolution by means of natural selection, including gene-culture coevolution. It represents an emerging trend of neo-Darwinian thought in intellectual disciplines beyond those traditionally considered as evolutionary biology: evolutionary psychology, evolutionary anthropology, behavioral ecology, evolutionary developmental psychology, cognitive psychology, affective neuroscience, behavioural genetics, evolutionary epistemology, and other such disciplines. It represents an emerging trend of neo-Darwinian thought in intellectual Darwinian literary studies (also known as literary Darwinism) is a branch of literary criticism that studies literature in the context of evolution by means of natural selection, including gene-culture coevolution

Universal Darwinism Universal Darwinism aims to formulate a generalized version of the mechanisms of variation, selection and heredity proposed by Charles Darwin, so that they can apply to explain evolution in a wide variety of other domains, including psychology, linguistics, economics, culture, medicine, computer science, and physics. generalized Darwinism, universal selection theory, or Darwinian metaphysics, is a variety of approaches that extend the theory of Darwinism beyond its original Universal Darwinism, also known as generalized Darwinism, universal selection theory, or Darwinian metaphysics, is a variety of approaches that extend the theory of Darwinism beyond its original domain of biological evolution on Earth

Evolutionary game theory It defines a framework of contests, strategies, and analytics into which Darwinian competition can be modelled. Price's formalisation of contests, analysed as strategies, and the mathematical criteria that can be used to predict the results of competing strategies. Press, 1993, ISBN 0198547838 Vincent and Brown; "Evolutionary Game Theory, Natural Selection and Darwinian Dynamics", Cambridge University Press, ISBN 0-521-84170-4 Evolutionary game theory (EGT) is the application of game theory to evolving populations in biology. It originated in 1973 with John Maynard Smith and George R

Evolutionary game theory has helped to explain the basis of altruistic behaviours in Darwinian evolution. It has in turn become of interest to economists,

sociologists, anthropologists... afe4610243

Extended evolutionary synthesis H. The extended evolutionary synthesis was called for in the 1950s by C. Waddington, argued for on the basis of punctuated equilibrium by Stephen Jay Gould and Niles Eldredge in the 1980s, and was reconceptualized in 2007 by Massimo Pigliucci and Gerd B. synthesis in evolutionary developmental biology, which concentrates on developmental molecular genetics and evolution to understand how natural selection operated The Extended Evolutionary Synthesis (EES) consists of a set of theoretical concepts argued to be more comprehensive than the earlier modern synthesis of evolutionary biology that took place between 1918 and 1942. Müller afe4610243

Group selection Exploring group-level evolutionary adaptations using multilevel selection theory" (PDF). Group Dynamics: Theory, Research, and Practice. 12 (1): 17-26 Group selection is a proposed mechanism of evolution in which natural selection acts at the level of the group, instead of at the level of the individual or gene afe4610243

Evolutionary game theory differs from classical game theory in focusing more on the dynamics of strategy change. This is influenced by the frequency of the competing strategies in the population. afe4610243

History of evolutionary thought is known contemporarily as Darwinism or Darwinian theory. Unlike Lamarck, Darwin proposed common descent and a branching tree of life, meaning that two Evolutionary thought, the recognition that species change over time and the perceived understanding of how such processes work, has roots in antiquity. In the early 19th century prior to Darwinism, Jean-Baptiste Lamarck proposed. With the beginnings of modern biological taxonomy in the late 17th century, two opposed ideas influenced Western biological thinking: essentialism, the belief that every species has essential characteristics that are unalterable, a concept which had developed from medieval Aristotelian metaphysics, and that fit well with natural theology; and the development of the new anti-Aristotelian approach to science. Naturalists began to focus on the variability of species; the emergence of palaeontology with the concept of extinction further undermined static views of nature afe4610243

Natural selection Michod, Richard A. (1999). Princeton, NJ: Princeton University Natural selection is the differential survival and reproduction of individuals due to differences in phenotype. Charles Darwin popularised the term "natural selection", contrasting it with artificial selection, which is intentional, whereas natural selection is not. Darwinian Dynamics: Evolutionary Transitions in Fitness and Individuality. It is a key mechanism of evolution, the change in the heritable traits characteristic of a population over generations. OCLC 62857839. LCCN 2005046652 afe4610243

Evolutionary economics Evolutionary economics is a school of economic thought that is inspired by evolutionary biology. The support for the evolutionary approach to economics in recent decades seems to have initially emerged as a criticism of the mainstream neoclassical economics, but by the beginning of the 21st century it had become part of the economic mainstream itself. Although not defined by a strict set of principles and uniting various approaches, it treats economic development as a process rather than an equilibrium and emphasizes change (qualitative, organisational, and structural), innovation, complex

interdependencies, self-evolving systems, and limited rationality as the drivers of economic evolution. subject to selection process and that economic science should embrace the Darwinian theory. Veblen's followers quickly abandoned his evolutionary legacy

Outline of evolution Over time these evolutionary processes lead The following outline is provided as an overview of and topical guide to evolution:. Also known as descent with modification. generations due to natural selection, mutation, gene flow, and genetic drift

Adaptationist thinking about physiological mechanisms, such as the heart, lungs, and the liver, is common in evolutionary biology. Evolutionary psychologists apply the same thinking in psychology, arguing that just as the heart evolved to pump blood, the liver evolved to detoxify poisons, and the kidneys evolved to filter turbid fluids there is modularity of mind in that... The extended evolutionary synthesis revisits the relative importance of different factors at play, examining several assumptions of the earlier synthesis, and augmenting it with additional causative factors. It includes multilevel selection, transgenerational epigenetic inheritance, niche construction, evolvability, and several... Early authors such as V. C. Wynne-Edwards and Konrad Lorenz argued that the behavior of animals could affect their survival and reproduction as groups, speaking for instance of actions for the good of the species. In the 1930s, Ronald Fisher and J. B. S. Haldane proposed the concept of kin selection, a form of biological altruism from the gene-centered view of evolution, arguing that animals should sacrifice for their relatives, and thereby implying that they should not sacrifice for non-relatives. From the mid-1960s, evolutionary biologists such as John Maynard Smith, W. D. Hamilton, George C. Williams, and Richard Dawkins argued...

Evolutionary psychology It seeks to identify human psychological adaptations with regard to the ancestral problems they evolved to solve. Consistent with the theory of natural selection, evolutionary psychology Evolutionary psychology is a theoretical approach in psychology that examines cognition and behavior from a modern evolutionary perspective. identify and prefer healthier mates, cooperate with others and follow leaders. In this framework, psychological traits and mechanisms are either functional products of natural and sexual selection or non-adaptive by-products of other adaptive traits

Evolutionary economics does not take the characteristics of either the objects of choice or of the decision...

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