

Applications of Machine Learning in Evolution, Genetics and Ecology

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Machine learning and biology are closely related. The best and most successful examples of learning systems are living organisms. One of the most familiar types of machine learning algorithms is neural networks whose design is based on the operation of the nerve system. We shall discuss three examples demonstrating the contribution of machine learning to the analysis of DNA sequence alignments, the diagnosis of cancer using micro arrays and the study of sudden oak death in California.