CSC466: Artificial Intelligence 2

Learning about Learning and Machine Learning

Ace DeSiena - Jan 2015

Learning Defined

"Learning is the act of acquiring. . . or modifying. . . existing knowledge, behaviors, skills, values, or preferences and may involve synthesizing different types of information."
Wikipedia (2015 : 1 : 27)

Machine Learning Defined

"Machine Learning is a scientific discipline that addresses the following question: 'How can we program systems to automatically learn and to improve with experience?' "
http://www.mlplatform.nl/what-is-machine-learning/

Self-Supervised Road Detection

Road detection is an important task for driver assistance and autonomous vehicles. This project uses the Support Vector Machine method of machine learning to accomplish road detection. It also updates it's own training data by comparing certain data with new uncertain data. This makes it a self-supervised program.

http://web.mit.edu/mobility/publications/Iagnemma_IVSS_10.pdf