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and principles regarding learning algorithms for deep architectures, in particular those exploiting as building blocks unsupervised learning of single-layer models such as Restricted Boltzmann Machines, used to construct deeper models such as Deep Belief Networks.

Learning Deep Architectures for AI - Accueil

Multiagent Systems Multiple agents interact in common environment Each agent with own sensors, effectors, goals, ... Agents have to coordinate actions to achieve goals

Multiagent Learning - Foundations and Recent Trends

A Tutorial on Linear Function Approximators for Dynamic Programming and Reinforcement Learning Alborz Geramifard | Thomas J. Walsh | Stefanie Tellex | Girish Chowdhary | Nicholas Roy | Jonathan P.

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Learning Deep Architectures for AI Article (PDF Available) in Foundations and Trends® in Machine Learning 2(1):1-55 · January 2009 with 5,295 Reads DOI: 10.1561/2200000006

(PDF) Learning Deep Architectures for AI - ResearchGate

To appear in Foundations and Trends in Machine Learning Abstract Theoretical results suggest that in order to learn the kind of complicated functions that can represent high-level abstractions (e.g. in vision, language, and other AI-level tasks), one may need deep architectures.

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theoretical and practical appeals. The goal of online learning is to make a sequence of accurate predictions given knowledge of the correct answer to previous prediction tasks and possibly additional available information. Online learning has been studied in several research fields including game theory, information theory, and machine learning.

Online Learning and Online Convex Optimization

Foundations and TrendsR in Machine Learning Vol. 4, No. 4 (2011) 267â€“373 c 2012 C. Sutton and A. McCallum DOI: 10.1561/2200000013 An Introduction to Conditional Random Fields By Charles Sutton and Andrew McCallum

An Introduction to Conditional Random Fields

well suited to machine learning problems. In §7, we present consensus and sharing problems, which provide general frameworks for distributed optimization. In §8, we consider distributed methods for generic model fitting problems, including regularized regression models like the lasso and classification models like support vector machines.

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