

Reinforcement Learning: An Introduction to the Technology

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Abstracts

REPORT INCLUDES:

A general framework for deep Reinforcement Learning (RL) – also known as a semi-supervised learning model in machine learning paradigm

Assessing the breadth and depth of RL applications in real-world domains, including increased data efficiency and stability as well as multi-tasking

Understanding of the RL algorithm from different aspects; and persuade the decision makers and researchers to put more efforts on RL research



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Reinforcement Learning vs. Supervised Learning vs. Unsupervised Learning

Approaches to Reinforcement Learning Algorithms

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Market Dynamics

Drivers

Restraints

Opportunities

Challenges of Reinforcement Learning

Slower Interaction with Real Systems as Compared to Faster Simulated Environments

Higher Variance and Instability

Absence of Reproducibility Due to Lack of Standardized Benchmarks, Frameworks and

Evaluation Metrics

Inappropriate Definition of Rewards, Actions and States

Lack of Generalization

Future Aspects of Reinforcement Learning

Future Applications of Reinforcement Learning Across Verticals

Resources Management in Computer Clusters

Traffic Light Control

Robotics

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Chemistry

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Bidding and Advertising

Games

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Companies Working on Reinforcement Learning

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DEEPMIND TECHNOLOGIES

MALUUBA INC.

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