Abstract

Machine learning is currently identified as one of the major parts of the research in Robotics. However the advanced concept of machine learning plus optimization reported effective for developing learning systems. This article considers the novel integration of machine learning and optimization for the complex and dynamic context of Robot learning. Further the proposed case study presents an effective framework for learning and solving the global optimization problem within the context of Robotics and learning.

References

10. Waller, M.A., Fawcett, SE.: Data science, predictive analytics, and big data: a revolution that will transform supply chain design and management. Journal of Business Logistics 34(2):77-84 (2013)
36. Brunato M, Battiti R. Learning and intelligent optimization (LION): one ring to rule them all. Proceedings of the VLDB Endowment 6(11) 1176-7 (2013)

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