

Reinforcement Learning and Approximate Dynamic Programming for Feedback Control



Reinforcement learning (RL) and adaptive dynamic programming (ADP) has been one of the most critical research fields in science and engineering for modern complex systems. This book describes the latest RL and ADP techniques for decision and control in human engineered systems, covering both single player decision and control and multi-player games. Edited by the pioneers of RL and ADP research, the book brings together ideas and methods from many fields and provides an important and timely guidance on controlling a wide variety of systems, such as robots, industrial processes, and economic decision-making.

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Reinforcement Learning and Approximate Dynamic Programming the principles of control are routinely applied and exploited in a variety of disciplines such as economics . 1.2 Approximation in dynamic programming and reinforcement learning. 5 controller with feedback on its immediate performance. I use adaptive dynamic programming since I work on control applications. of Learning and Approximate Dynamic Programming, published in 2004.

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