Direct value-approximation for factored MDPs

(2001) (Make Corrections) (4 citations) Dale Schuurmans, Relu Patrascu Proc. NIPS-14 View or download: <u>cmu.edu/Groups/NIPS/NIPS20...CN14.ps.gz</u> Cached: <u>PDF PS.gz PS DjVu Image Update Help</u>

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Abstract: We present a simple approach for computing reasonable policies for factored Markov decision processes (MDPs), when the entired value function can be approximate

(MDPs), when the optimal value function can be approximated by a compact linear form. (Update)

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.... linear value function approximators it allows practically efficient planning algorithms based on linear programming to be easily implemented [13, 22]. Both lines of research exploration exploitation and compact representations have recently been brought together in the...

.... value and policy iteration are described in [8] while a factored LP solution technique is presented in [16; 9] We discuss the method proposed in [16]. The LP formulation of a factored MDP above can be encoded compactly when an MDP is factored. First, notice that the...

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