

Øvrige specialedeltagere

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NMAA60002E	Thesis		Institut for Matematiske Fag	30

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 Afleveringsfrist
 Afleveringsdato

Titel On Theoretical Analyses of Deep Q-Learning

Øvrige oplysninger - jf. fagspecifik vejledning

Opgaveformulering Strong empirical results of Artificial Neural Networks (ANN) and Q-Learning (QL) for certain problems, such as image recognition and board game strategies, have appeared during the last 15 years. Mathematical explanation of these results have generally been sparse, however recent attempts aim to remedy this. The project will survey and analyze recent mathematical results on ANN and QL performance, discussing their strength and relevance as well as the possibility of their improvement. In the course of this, the function space foundations of the methods will be described and analyzed in detail. Finally the theoretical results will be put in context of the empirical results that motivated the project.

Vejledernavn	Administrativ enhed	Prioritet
Stefan Horst Sommer		1

 Fakultet / institut

 Vejleder