

Human Reinforcement Learning

Summer 2019

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Organization of Class

- ▶ Lectures: Tuesday, 11:15-12:45, INF 327 / SR 4
- ▶ Exercises: Thursday, 14:15-15:45, INF 327 / SR 4
- ▶ Interactive sessions: Computerpool IWR (to be announced)
- ▶ Lectures, exercises, etc. will be posted and updated on <http://www.cl.uni-heidelberg.de/courses/ss19/HRL/material/>

Assessment

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- ▶ Interactive sessions
- ▶ Term project

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 - ▶ jupyter notebooks
 - ▶ slot filling code for implementation of basic RL algorithms
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- ▶ All tasks count for final grade!

Textbooks

- ▶ Richard S. Sutton and Andrew G. Barto (2018, 2nd edition): Reinforcement Learning: An Introduction. MIT Press.
 - ▶ <http://incompleteideas.net/sutton/book/the-book-2nd.html>
- ▶ Csaba Szepesvári (2010). Algorithms for Reinforcement Learning. Morgan & Claypool.
 - ▶ <https://sites.ualberta.ca/~szepesva/RLBook.html>
- ▶ Dimitri Bertsekas and John Tsitsiklis (1996). Neuro-Dynamic Programming. Athena Scientific.
 - ▶ = another name for deep reinforcement learning, contains all proofs, analog version can be ordered at <http://www.athenasc.com/ndpbook.html>