

Publication List

Christian Daniel

Excerpts of the research presented in the doctoral thesis have led to the following publications.

Articles in Scientific Journals

- C. Daniel**, H. van Hoof, G. Neumann and J. Peters (2016). Probabilistic Inference for Determining Options in Reinforcement Learning. *Machine Learning (ML)*, 104, pp. 337-357, Springer **Best Student Paper Award**. Citation count: 3
<http://www.ausy.tu-darmstadt.de/uploads/Site/EditPublication/Daniel2016ECML.pdf>
- C. Daniel**, G. Neumann, O. Kroemer and J. Peters. Hierarchical Relative Entropy Policy Search. *Journal of Machine Learning (JMLR)*, 17, pp.1-50. Citation count: 58
<http://www.ausy.tu-darmstadt.de/uploads/Site/EditPublication/Daniel2016JMLR.pdf>
- C. Daniel**, O. Kroemer, M. Viering, J. Metz and J. Peters (2015). Active Reward Learning with a Novel Acquisition Function. *Autonomous Robots (AuRo)*, 39, pp. 389-405, Springer. Citation count: 2
<http://www.ausy.tu-darmstadt.de/uploads/Team/ChristianDaniel/ActiveRewardLearning.pdf>
- A. Paraschos, **C. Daniel**, J. Peters and G. Neumann. Probabilistic Movement Primitives. *Autonomous Robots*. Submitted.
- G. Neumann, **C. Daniel**, A. Paraschos, A. Kupcsik and J. Peters (2014). Learning Modular Policies for Robotics. *Frontiers in Computational Neuroscience*. 8, pp. 62-72, Frontiers. Citation count: 7
<http://journal-cdn.frontiersin.org/article/76179/files/pubmed-zip/versions/1/pdf>

Articles in Conference Proceedings

- C. Daniel, J. Taylor, and S. Nowozin (2016). Learning Step Size Controllers for Robust Neural Network Training. *National Conference of the American Association for Artificial Intelligence (AAAI)*. (Acceptance rate $\approx 26\%$). Citation count: 7
<http://www.ausy.tu-darmstadt.de/uploads/Site/EditPublication/Daniel2016AAAI.pdf>
- O. Kroemer, C. Daniel, G. Neumann, H. van Hoof, J. Peters (2015). Towards Learning Hierarchical Skills for Multi-Phase Manipulation Tasks, *Proceedings of the International Conference on Robotics and Automation (ICRA)*. Citation count: 15
Best Paper Award Finalist, Best Student Paper Award Finalist
<http://www.ausy.tu-darmstadt.de/uploads/Site/EditPublication/KroemerICRA15.pdf>
- S. Parisi, H. Abdulsamad, A. Paraschos C. Daniel, J. Peters (2015). Reinforcement Learning vs Human Programming in Tetherball Robot Games, *Proceedings of the IEEE/RSJ Conference on Intelligent Robots and Systems (IROS)*. Citation count: 1
http://www.ausy.tu-darmstadt.de/uploads/Team/SimoneParisi/parisi_iros_2015
- C. Daniel, M. Viering, J. Metz, O. Kroemer and J. Peters (2014). Active Reward Learning. *Robots: Science and Systems (R:SS)*. (Acceptance rate $\approx 30\%$). Citation count: 13
http://www.ias.tu-darmstadt.de/uploads/Publications/Daniel_RSS_2014.pdf
- C. Daniel, G. Neumann, O. Kroemer and J. Peters (2013). Learning Sequential Motor Tasks. *International Conferene on Robotics and Automation (ICRA)*. Citation count: 25
http://www.ias.informatik.tu-darmstadt.de/uploads/Publications/Daniel_ICRA_2013.pdf
- A. Paraschos, C. Daniel, J. Peters and G. Neumann (2013). Probabilistic Movement Primitives. *Advances in Neural Information Processing Systems (NIPS)*. (Acceptance rate $\approx 25\%$). Citation count: 65
http://www.ias.tu-darmstadt.de/uploads/Publications/Paraschos_NIPS_2013a.pdf
- C. Daniel, G. Neumann and J. Peters (2012). Learning Concurrent Motor Skills in Versatile Solution Spaces. *International Conferene on Intelligent Robots and Systems (IROS)* **IROS 2012 CoTeSys Best Paper Award, IROS 2012 Best Paper Award Finalist, IROS 2012 Best Student Paper Award Finalist**. Citation count: 28
http://www.ias.informatik.tu-darmstadt.de/uploads/Publications/Daniel_IROS_2012.pdf