List of publications of

Pouya Mohammadi

1. P. Mohammadi, E. M. Hoffman, N. Dehio, M. S. Malekzadeh, M. Giese, N. G. Tsagarakis, and J. J. Steil. Complaint humanoids moving toward rehabilitation applications. *IEEE Robotics & Automation Magazine (MRA)*, December 2019

2. P. Mohammadi, E. M. Hoffman, L. Muratore, N. G. Tsagarakis, and J. J. Steil. Reactive walking based on upper-body manipulability: An application to intention detection and reaction. *2019 International Conference on Robotics and Automation (ICRA)*, May 2019

3. P. Mohammadi, D. Kubus, and J. J. Steil. Exploiting environment contacts of serial manipulators. *2019 International Conference on Robotics and Automation (ICRA)*, May 2019

4. J. Kodl, A. Mukovskiy, P. Mohammadi, M. Malekzadeh, N. Taubert, A. Christensen, T. Dijkstra, J. Steil, and M. Giese. Online planning and control of ball throwing by the humanoid robot COMAN and validation exploiting VR in rehabilitation scenarios with ataxia patients. In *In Proc. of CYBATHLON Symposium on Assistive and Wearable Robotics (AsWeR)*. May 2019

5. S. Gopinathan, P. Mohammadi, and J. J. Steil. A comprehensive evaluation of manipulability based control schemes for phri (2nd review). *Transactions on Human-Robot Interaction*, July 2019

6. P. Mohammadi, M. Malekzadeh, J. Kodl, A. Mukovskiy, D. L. Wigand, M. Giese, and J. J. Steil. Real-time control of whole-body robot motion and trajectory generation for physiotherapeutic juggling in vr. *2018 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, Oct 2018

7. S. Gopinathan, P. Mohammadi, and J. Steil. Improved human-robot interaction: A manipulability based approach. 06 2018

8. D. L. Wigand, P. Mohammadi, E. M. Hoffman, N. G. Tsagarakis, J. J. Steil, and S. Wrede. An open-source architecture for simulation, execution and analysis of real-time robotics systems. *2018 IEEE International Conference on Simulation, Modeling, and Programming for Autonomous Robots (SIMPAR)*, May 2018

9. Z. Shareef, P. Mohammadi, and J. Steil. Improving the inverse dynamics model of the kuka lwr iv+ using independent joint learning. *IFAC-PapersOnLine*, 49(21):507–512, 2016

10. M. Cognetti, P. Mohammadi, and G. Oriolo. Whole-body motion planning for humanoids based on com movement primitives. *2015 IEEE-RAS 15th International Conference on Humanoid Robots (Humanoids)*, Nov 2015

11. M. Cognetti, P. Mohammadi, G. Oriolo, and M. Vendittelli. Task-oriented whole-body planning for humanoids based on hybrid motion generation. *2014 IEEE/RSJ International Conference on Intelligent Robots and Systems*, Sep 2014