well by a virtual robot with the sequence of motion primitives are generated. In future, the execution of actions can be built based motion primitives which are generated from human demonstration.

## References


[1] M. Tenorth, D. Nyga, and M. Beetz, “Understanding and executing instructions for everyday manipulation tasks from the world wide web”, In: IEEE, *International Conference on Robotics and Automation (ICRA)*, pp. 1486 - 1491, 2010.

[2] M. Tenorth, U. Klank, D. Pangercic, and M. Beetz, “Web-enabled robots”, *Robotics Automation Magazine, IEEE*, Vol. 18, No. 2, pp. 58–68, 2011.

[3] D. Nyga, and M. Beetz, “Everything robots always wanted to know about housework (but were afraid to ask)”, *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2012.

[4] M. Tenorth, A.C. Perzylo, R. Lafrenz, and M. Beetz, “Representation and exchange of knowledge about actions, objects, and environments in the roboearth framework”, *IEEE Transactions on Automation Science and Engineering*, pp. 643-651, 2013.

[5] M. Bollini, S. Tellex, T. Thompson, N. Roy, and D. Rus, “Interpreting and executing recipes with a cooking robot”, *Experimental Robotics, Volume 88 of the series Springer Tracts in Advanced Robotics*, pp. 481-495, 2013.

[6] D.K. Misra, J. Sung, K. Lee, and A. Saxena, “Tell me dave: context-sensitive grounding of natural language to manipulation instructions”, *Proceedings of Robotics: Science and Systems*, 2014.

[7] P.N. Hung, T. Yoshimi, “Extraction of actions and objects from instructions manual for executable robot planning”, *Proceedings of 15$^{th}$ International Conference on Control, Automation and Systems (ICCAS)*, Korea, pp. 881-885, 2015.

[8] D. Rusu, L. Dali, B. Fortuna, M. Grobelnik, and D. Mladenić, “Triplet extraction from sentences”, *Conference on Data Mining and Data Warehouses (SiKDD)*, Slovenia, 2007.

[9] “The Stanford Parser: A Statistical Parser”, Available: http://nlp.stanford.edu/software/lex-parser.shtml. [Accessed: Feb, 2016]

[10] D. Klein, and C.D. Manning, “Accurate unlexicalized parsing”, *in ACL’03: Proceedings of the 41st Annual Meeting on Association for Computational Linguistics*, Morristown, NJ, USA, pp. 423–430, 2003.

[11] R. Levy, and G. Andrew, “Tregex and tsurgeon: tools for querying and manipulating tree data structures”, *Proceedings of the Fifth International Conference on Language Resources and Evaluation (LREC)*, Genoa, Italy, 2006.

[12] “ROS Introduction”, Available: http://wiki.ros.org/ROS/Introduction. [Accessed: Feb, 2016]

[13] “ROS 101: Intro to the Robot Operating System”, Available: http://www.clearpathrobotics.com/blog/how-to-guide-ros-101. [Accessed: Jan 21, 2014]

[14] W. Qian, Z. Xia, J. Xiong, Y. Gan, Y. Guo, S. Weng, H. Deng, Y. Hu, and J. Zhang, “Manipulation task simulation using ros and gazebo”, *Proceedings of the 2014 IEEE International Conference on Robotics and Biomimetics*, Bali, Indonesia, 2014.

[15] “PR2 Interactive Manipulation”, Available: http://wiki.ros.org/pr2_interactive_manipulation. [Accessed: July, 2013]