

Publications Related to the RoboCup Rescue Simulation League

Compiled by Arnoud Visser, on behalf of the Executive Committee

July 27, 2013

Abstract

This is a partial list¹ of publications that have resulted, directly or indirectly, from the RoboCup Rescue Simulation leagues. It was compiled by requesting contributions from subscribers to the rescue simulation league mailing lists, last in July 2013. There are certainly many other publications that have not been included in this list. If you know of any, please send them to Arnoud Visser at A.Visser@uva.nl.

Books

- [1] Stephen Balakirky, Stefano Carpin, and Mike Lewis, editors. *Workshop on Robots, Games, and Research: Success stories in USARSim*. IEEE, October 2009.
- [2] Bruno Siciliano and Oussama Khatib, editors. *Springer Handbook of Robotics*. Springer, 2008.
- [3] K.S. Fu, R.C. Gonzalez, and C.S.G. Lee. *Robotics: control, sensing, vision, and intelligence*. McGraw-Hill, 1987.

Articles

- [4] Masaru Shimizu and Tomoichi Takashi. Training platform for rescue robot operation and pair operations of multi-robots. *Advanced Robotics*, 27(5):385–391, March 2013.
- [5] H. L. Akin, N. Ito, A. Jacoff, A. Kleiner, J. Pellenz, and A. Visser. Robocup rescue robot and simulation leagues. *AI Magazine*, 34(1):78–87, 2013.
- [6] C. Dornhege and A. Kleiner. A frontier-void-based approach for autonomous exploration in 3d. *Advanced Robotics*, 27(6):459–468, 2013.

¹http://staff.science.uva.nl/~arnoud/activities/robocup/rescue_simulation_references.bib

- [7] Edwin Olson, Johannes Strom, Ryan Morton, Andrew Richardson, Pradeep Ranganathan, Robert Goeddel, Mihai Bulic, Jacob Crossman, and Bob Marinier. Progress towards multi-robot reconnaissance and the MAGIC 2010 competition. *Journal of Field Robotics*, 29(5):762–792, September 2012.
- [8] Nicola Basilico and Francesco Amigoni. Exploration strategies based on multi-criteria decision making for searching environments in rescue operations. *Autonomous Robots*, 31(4):401–417, 2011.
- [9] A. Kleiner and C. Dornhege. Mapping for the support of first responders in critical domains. *Journal of Intelligent & Robotic Systems*, 64(1):7–31, 2011.
- [10] Archie Chapman, Rosa Anna Micillo, Ramachandra Kota, and Nick Jennings. Decentralised dynamic task allocation using overlapping potential games. *The Computer Journal*, 53(9):1462–1477, October 2010.
- [11] Sarvapali Ramchurn, Alessandro Farinelli, Kathryn Macarthur, Mariya Polukarov, and Nick Jennings. Decentralised coordination in robocup rescue. *The Computer Journal*, 53(9):1–15, 2010.
- [12] Benjamin Balaguer, Stephen Balakirsky, Stefano Carpin, and Arnoud Visser. Evaluating maps produced by urban search and rescue robots: lessons learned from robocup. *Autonomous Robots*, 27(4):449–464, November 2009.
- [13] J.P. How, B. Bethke, A. Frank, D. Dale, and J. Vian. Real-time indoor autonomous vehicle test environment. *Control Systems Magazine*, 17(3):51–64, 2008.
- [14] Stephen Balakirsky, Stefano Carpin, Alexander Kleiner, Michael Lewis, Arnoud Visser, Jijun Wang, and Vittorio Amos Ziparo. Towards heterogeneous robot teams for disaster mitigation: Results and Performance Metrics from RoboCup Rescue. *Journal of Field Robotics*, 24(11-12):943–967, November 2007.
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Acknowledgement

This list is based on the equivalent list² of the Soccer Simulation League, maintained by Prof. Peter Stone.

²<http://www.cs.utexas.edu/~pstone/tmp/sim-league-research.bib>

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