

## REFERENCES

- 1 DARPA, *DARPA Grand Challenge 2004 Rules*, version April 1.2, dated April 2, 2003
- 2 DARPA, *DARPA Grand Challenge 2005 Rules*, dated October 8, 2004
- 3 DARPA, *Grand Challenge 2004 Final Report*, July 30, 2004
- 4 House Report 106-945, *Enactment of Provisions of H. R. 5408, The Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001*, Library of Congress, dated October 6, 2000
- 5 News Release, *A Huge Leap Forward for Robotics R&D*, dated October 9, 2005
- 6 DARPA, *DARPA Grand Challenge 2004 Rules*, dated January 5, 2004
- 7 DARPA, *Report to Congress: DARPA Prize Authority*, dated March, 2006
- 8 Press Release, *Organizers of Autonomous Robotic Ground Vehicle Challenge Announce Initial Team Selection*, dated November 13, 2003
- 9 Press Release, *Final Data from DARPA Grand Challenge*, dated March 13, 2004
- 10 DARPA, *QID Process Description*, dated January 2, 2004
- 11 DARPA, Archived Grand Challenge 2004 Website,  
<http://www.darpa.mil/grandchallenge04/index.html>
- 12 Carl D. Crane III, David G. Armstrong II, Robert Touchton, et al., *Team CIMAR's NaviGATOR: An Unmanned Ground Vehicle for the 2005 DARPA Grand Challenge*, *Journal of Field Robotics*, Vol. 23, No. 8, Wiley Periodicals, Inc., 2006
- 13 Desert Buckeyes, *ION: The Intelligent Off-Road Navigator The Desert Buckeyes'*

- entry in the DARPA Grand Challenge 2005*, no date (2005)
- 14 Qi Chen and Ümit Özgüner, *Intelligent Off-Road Navigation Algorithms and Strategies of Team Desert Buckeyes in the DARPA Grand Challenge 2005*, Journal of Field Robotics, Vol. 23, No. 9, Wiley Periodicals, Inc., 2006
- 15 Richard Mason, Jim Radford, Deepak Kumar, et al., *The Golem Group/University of California at Los Angeles Autonomous Ground Vehicle in the DARPA Grand Challenge*, Journal of Field Robotics, Vol. 23, No. 8, Wiley Periodicals, Inc., 2006
- 16 MITRE Meteorites, *2005 DARPA Grand Challenge Entry*, no date (2005)
- 17 Robert Grabowski, Richard Weatherly, Robert Bolling, et al., *MITRE Meteor: An Off-Road Autonomous Vehicle for DARPA's Grand Challenge*, Journal of Field Robotics, Vol. 23, No. 9, Wiley Periodicals, Inc., 2006
- 18 MonsterMoto, *Technical Paper*, Revision A, dated August 29, 2005
- 19 Red Team, *DARPA Grand Challenge 2005 Technical Paper*, dated August 24, 2005
- 20 Red Team Too, *DARPA Grand Challenge 2005 Technical Paper*, dated August 24, 2005
- 21 Chris Urmson, Charlie Ragusa, David Ray, et al., *A Robust Approach to the High-Speed Navigation for Unrehearsed Desert Terrain*, Journal of Field Robotics, Vol. 23, No. 8, Wiley Periodicals, Inc., 2006
- 22 SciAutonics/Auburn Engineering, *The Autonomous Ground Vehicle RASCAL: Team SciAutonics/Auburn Engineering in the DARPA Grand Challenge 2005*, no date

- 23 William Travis, Robert Daily, David M. Bevly, et al., *SciAutonics-Auburn Engineering's Low-Cost High-Speed ATV for the 2005 DARPA Grand Challenge*, Journal of Field Robotics, Vol. 23, No. 8, Wiley Periodicals, Inc., 2006
- 24 Team Cajunbot, *Technical Overview of CajunBot (2005)*, no date (2005)
- 25 Arun Lakhota, Suresh Golconda, and Anthony Maida, et al., *CajunBot: Architecture and Algorithms*, Journal of Field Robotics, Vol. 23, No. 8, Wiley Periodicals, Inc., 2006
- 26 Team Caltech, *DARPA Technical Paper: Team Caltech*, dated August 29, 2005
- 27 Team Cornell, *Technical Review of Team Cornell's Spider*, no date (2005)
- 28 Isaac Miller, Sergei Lupashin, Noah Zych, et al., *Cornell University's 2005 DARPA Grand Challenge Entry*, Journal of Field Robotics, Vol. 23, No. 8, Wiley Periodicals, Inc., 2006
- 29 Team ENSCO, *Team ENSCO's DEXTER*, no date (2005)
- 30 Team TerraMax, *DARPA Grand Challenge 2005*, no date (2005)
- 31 Deborah Braid, Alberto Broggi, and Gary Schmiedel, *The TerraMax Autonomous Vehicle*, Journal of Field Robotics, Vol. 23, No. 9, Wiley Periodicals, Inc., 2006
- 32 Red Team, *DARPA Grand Challenge Technical Paper*, Revision 6.1, dated April 8, 2004
- 33 Rob Meyer Productions, *Technical Paper for DARPA Grand Challenge*, no date (2004)
- 34 Oshkosh Truck Co. and The Ohio State University (Team TerraMax), *Technical Paper for TerraMax*, no date (2004)

- 35 Virginia Tech Grand Challenge Team, *DARPA Grand Challenge 2005*, no date (2005)
- 36 Brett M. Leedy, Joseph S. Putney, Cheryl Bauman, et al., *Virginia Tech's Twin Contenders: A Comparative Study of Reactive and Deliberative Navigation*, Journal of Field Robotics, Vol. 23, No. 9, Wiley Periodicals, Inc., 2006
- 37 Virginia Tech Team Rocky, *DARPA Grand Challenge 2005*, no date (2005)
- 38 The Player Project, <http://playerstage.sourceforge.net> (last accessed January 12, 2010)
- 39 CMake, *CMake FAQ*, [http://www.cmake.org/Wiki/CMake\\_FAQ](http://www.cmake.org/Wiki/CMake_FAQ), dated January 28, 2010 (last accessed February 26, 2010)
- 40 The Player Project, *Model Creation Tutorial*, [http://playerstage.sourceforge.net/doc/Gazebo-manual-svn-html/tutorial\\_model.html](http://playerstage.sourceforge.net/doc/Gazebo-manual-svn-html/tutorial_model.html), dated August 4, 2007 (last accessed February 26, 2010)
- 41 The Player Project, *Mesh Creation Tutorial*, [http://playerstage.sourceforge.net/doc/Gazebo-manual-svn-html/tutorial\\_mesh.html](http://playerstage.sourceforge.net/doc/Gazebo-manual-svn-html/tutorial_mesh.html), dated August 4, 2007 (last accessed February 26, 2010)
- 42 The Blender Foundation, <http://www.blender.org/> (last accessed February 26, 2010)
- 43 Torus Knot Software, Ltd., *Blender Exporter* [http://www.ogre3d.org/wiki/index.php/OGRE\\_Meshes\\_Exporter](http://www.ogre3d.org/wiki/index.php/OGRE_Meshes_Exporter) (last accessed February 26, 2010)
- 44 Open Dynamics Engine, *ODE Manual*,

- <http://opende.sourceforge.net/wiki/index.php/Manual>, dated July 22, 2008 (last accessed February 26, 2010)
- 45 SICK AG, *Technical Description - LMS200/211/221/291 Laser Measurement Systems*, dated December, 2006
- 46 SICK AG, *LMS 200/LMS 211/LMS 220/LMS 221/LMS 291 Laser Measurement Systems*, June, 2003
- 47 Paul G. Trepagnier, Jorge Nagel, Powell M. Kinney, et al., *KAT-5: Robust Systems for Autonomous Vehicle Navigation in Challenging and Unknown Terrain*, Journal of Field Robotics, Vol. 23, No. 8, Wiley Periodicals, Inc., 2006
- 48 The Golem Group / UCLA, *DARPA Grand Challenge Technical Paper*, no date (2005)
- 49 Stanford Racing Team, *Stanford Racing Team's Entry In The 2005 DARPA Grand Challenge*, no date (2005)
- 50 DARPA, *DARPA Grand Challenge 2005 Route Data Definition File*, August 3, 2005
- 51 Sebastian Thrun, Mike Montemerio, Hendrick Dahlkamp, et al., *Stanley: The Robot that Won the DARPA Grand Challenge*, Journal of Field Robotics, Vol. 23, No. 9, Wiley Periodicals, Inc., 2006
- 52 Team Overbot, *Team Overbot*, Revision 3, dated September 22, 2003 (the pages of this reference are dated February 13, 2004)
- 53 The Gray Team, *Team Gray Technical Paper*, date August 28, 2005
- 54 The Golem Group, *The Golem Group*, no date (2004)

- 55 Palos Verdes High School Warriors, *DARPA Grand Challenge Technical Paper*,  
March 1, 2004
- 56 Intelligent Vehicle Safety Technologies 1, *Technical Description*, dated August  
29, 2005
- 57 Mojavatton, *Technical Paper*, dated August 28, 2005
- 58 A. I. Motorvators, *AI Motorvators Technical paper*, dated March 4, 2004
- 59 Axion Racing, *Technical Paper*, dated February 29, 2004
- 60 Princeton University, *Technical Paper*, no date (2005)
- 61 Team Caltech, *Technical Paper*, dated February 23, 2004
- 62 Virginia Department of Education in cooperation with the Virginia Department of  
Motor Vehicles, *Curriculum and Administrative Guide for Driver Education in  
Virginia*, 2001
- 63 Virginia Department of Education in cooperation with the Virginia Department of  
Motor Vehicles, *Curriculum Scope and Sequence Modules for Driver Education  
in Virginia, Module Eleven: Behind-the-Wheel and In-Car Observation*, dated  
August, 2001
- 64 SciAutonics I, *Technical Paper for DARPA Grand Challenge*, no date
- 65 AVID-ET and SciAutonics, *Technical Paper Addendum for DARPA Grand  
Challenge*, no date (2004)
- 66 Axion Racing, *DARPA Grand Challenge 2005 Technical Paper*, dated August 11,  
2005
- 67 Team Arctic Tortoise, *Arctic Tortoise Technical Paper*, Revision 1, no date (2004)

- 68 Chris Urmson, Joshua Anhalt, Michael Clark, et al., *High-Speed Navigation of Unrehearsed Terrain: Red Team Technology for Grand Challenge 2004*, CMU-RI-TR-04-37, The Robotics Institute, Carnegie-Mellon University, June, 2004.
- 69 DARPA, *DARPA Grand Challenge Team Newsletter #1*, dated August 27, 2003
- 70 Department of Defense, *DARPA Grand Challenge: Defense Advanced Research Projects Agency Competition for Autonomous Robotic Ground Vehicles; 2004, 2005, and 2007 Events, Urban Challenge, Reports, Movies (Two CD-ROM Set)*, Progressive Management, dated May 2, 2007
- 71 Martin Buehler, Karl Iagnemma, and Sanjiv Singh, *The 2005 DARPA Grand Challenge: The Great Robot Race*, Springer-Verlag Berlin Heidelberg, 1st ed., dated October 23, 2007
- 72 Amazon.com, Inc., <http://www.amazon.com> (last accessed August 10, 2009)
- 73 Anand R. Atreya, Bryan C. Cattle, Brendan M. Collins, et al., *Prospect Eleven: Princeton University's Entry in the 2005 DARPA Grand Challenge*, Journal of Field Robotics, Vol. 23, No. 9, Wiley Periodicals, Inc., 2006
- 74 Alain Kornhauser, *About Prospect Eleven and Princeton University's "DARPA Project"*, Princeton University, dated November 29, 2005
- 75 Press Release, *DARPA Grand Challenge Finalizes Field for Qualification, Inspection and Demonstration Event*, dated December 19, 2003
- 76 Press Release, *Finalists Selected for DARPA Grand Challenge*, dated October 5, 2005
- 77 DARPA, Archived Grand Challenge 2005 Website,

- <http://www.darpa.mil/grandchallenge05/index.html>
- 78 irobotics.org, <http://www.irobotics.org> (last accessed January 5, 2010)
- 79 The Player Project, *Installation (Linux)*,  
<http://playerstage.sourceforge.net/doc/Gazebo-manual-cvs-html/install.html>, dated  
September 12, 2005
- 80 The Player Project, *Installation (Linux)*,  
<http://playerstage.sourceforge.net/doc/Gazebo-manual-svn-html/install.html>,  
dated August 4, 2007
- 81 Gazebo, *README*, version 0.9.0
- 82 irobotics.org, *Player 2.1.1 / Gazebo 0.8 SVN rev. 6886 Installation on Fedora 9*,  
<http://www.irobotics.org/gazebo08.f8.html>, dated August 19, 2008
- 83 The Player Project, *Installation Instructions for Gazebo*,  
<http://playerstage.sourceforge.net/wiki/Install>, dated March 3, 2009
- 84 The Player Project, *Installation Instructions for Gazebo*,  
<http://playerstage.sourceforge.net/wiki/Install>, dated January 12, 2010 (last  
accessed January 12, 2010)
- 85 The Player Project, *Prerequisites*, [http://playerstage.sourceforge.net/doc/Gazebo-  
manual-svn-html/prerequisites.html](http://playerstage.sourceforge.net/doc/Gazebo-manual-svn-html/prerequisites.html), dated August 4, 2007
- 86 NVIDIA Corporation, *Unix Drivers Portal Page*,  
<http://www.nvidia.com/object/unix.html> (last accessed December 18, 2009)
- 87 Novell, Inc., *NVIDIA Installer HOWTO for SUSE LINUX users*,  
<http://www.suse.de/~sndirsch/nvidia-installer-HOWTO.html> (last accessed

- December 18, 2009)
- 88 FreeImage, *README.linux*, version 3.13.0
- 89 Object-oriented Input System, *ReadMe.txt*, version 1.2.0
- 90 Open Dynamics Engine, *INSTALL.txt*, version 0.11.1
- 91 Fast Light ToolKit, *README*, version 1.1.9
- 92 CrazyEddie's GUI System, *README*, version 0.6.2b
- 93 Crazy Eddie's GUI System Project, <http://www.cegui.org.uk> (last accessed September 11, 2009)
- 94 Free Software Foundation, Inc., *Coreutils - GNU core utilities*, <http://www.gnu.org/software/coreutils/>, dated February 21, 2009 (last accessed December 18, 2009)
- 95 Torus Knot Software, Ltd., <http://www.ogre3d.org> (last accessed September 10, 2009)
- 96 NVIDIA Corporation, <http://developer.nvidia.com> (last accessed September 9, 2009)
- 97 FFmpeg, *INSTALL*, version 0.5
- 98 The Player Project, *Standard Install Procedure*, <http://playerstage.sourceforge.net/doc/Player-cvs/player/install.html>, dated September 12, 2005
- 99 Player, *README*, version 3.0.0
- 100 Player, *INSTALL*, version 3.0.0
- 101 John Hsu, *Re: [PlayerStage-Gazebo] Problem with simplecar.world*, playerstage-

- gazebo mailing list, dated January 19, 2010
- 102 Edmunds, <http://www.edmunds.com/>
- 103 Cars.com, <http://www.cars.com/>
- 104 Motor Trend, <http://www.motortrend.com/>
- 105 Autobuyguide.com, <http://www.autobuyguide.com> (last accessed March 25, 2010)
- 106 The Player Project, *World File Syntax*,  
[http://playerstage.sourceforge.net/doc/Gazebo-manual-svn-html/config\\_syntax.html](http://playerstage.sourceforge.net/doc/Gazebo-manual-svn-html/config_syntax.html), dated August 4, 2007 (last accessed March 15, 2010)
- 107 ROS.org, <http://www.ros.org/wiki/> (last accessed March 15, 2010)