



TERRAMAX™
UNMANNED GROUND VEHICLE

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Alberto Broggi is a professor of computer engineering at the University of Parma, Italy, and the director of the VisLab-Artificial Vision and Intelligent Systems Lab where he works with about 20 researchers and doctorate candidates. Broggi's main research interests relate to the application of artificial vision techniques in the automotive field.

Broggi joined the University of Parma in 2001 after a three-year period spent as associate professor of artificial intelligence at Pavia University, Italy. He was the coordinator of the ARGO Project, aimed at developing a computer vision system for automated driving of a passenger vehicle. Currently he coordinates projects that use daytime and infrared vision technology for pedestrian detection, as well as obstacle, lane and vehicle detection. His research interests, besides real-time computer vision algorithms for automated vehicle navigation, include low-cost architectures to be integrated on unmanned vehicles.

Broggi continues to serve as editor-in-chief for *IEEE Transactions on Intelligent Transportation Systems* (T-ITS), an international scientific journal for the ITS field, a position he has held since 2004. He is also the author of more than 150 scientific publications and patents developed with automotive companies.

The two most relevant accomplishments for Broggi, which are considered milestones in the robotics and image processing worlds, are his participation in the MilleMiglia and DARPA Grand Challenge events. In June 1998, he participated in the MilleMiglia in Automatico tour, a more than 2,000 km test drive of the ARGO autonomous vehicle on Italian highways in normal traffic and weather conditions. During this test, the ARGO vehicle drove for almost 95 percent of the distance in automatic mode. In October 2005, Broggi was part of Team TerraMax for the DARPA Grand Challenge race, a 132-mile off-road race in which the TerraMax vehicle reached the finish line with no human intervention.

For more information, please visit www.terramax.com and www.vislab.it.

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