

Intelligent Autonomous Robotics: A Robot Soccer Case Study - Peter Stone

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Robotics technology has recently advanced to the point of being widely accessible for relatively low-budget research, as well as for graduate, undergraduate, and even secondary and primary school education. This lecture provides an example of how to productively use a cutting-edge advanced robotics platform for education and research by providing a detailed case study with the Sony AIBO robot, a vision-based legged robot. The case study used for this lecture is the UT Austin Villa RoboCup Four-Legged Team. This lecture describes both the development process and the technical details of its end result. The main contributions of this lecture are (i) a roadmap for new classes and research groups interested in intelligent autonomous robotics who are starting from scratch with a new robot, and (ii) documentation of the algorithms behind our own approach on the AIBOs with the goal of making them accessible for use on other vision-based and/or legged robot platforms. Author: Stone, Peter Publisher: Morgan & Claypool Publishers Illustration: N Language: ENG Title: Intelligent Autonomous Robotics: A Robot Soccer Case Study Pages: 00000 (Encrypted PDF) On Sale: 2007-06-01 SKU-13/ISBN: 9781598291261 Category: Technology & Engineering : General

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