

Field Robotics Center Seminar Series

Tuesday, Feb 08, 2011 GHC 2109 11am - noon

Pizza will be served



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Design of a Mobile Robot

Abstract

An autonomous mobile robot and/or unmanned ground vehicle is a special vehicle which has the capability of navigating on its own. Since the vehicle should be self behaving and self tuning, it has to run and response to its workspace in which it operates without any interaction from outside. It should be able to sense and model its work space to a sufficient degree, position itself, determine the desired trajectory and follow it. Hence, during the design of a mobile robot all of these have to be taken into consideration whether it is designed from scratch or adopted from an existing platform.

Speaker Bio

Gokhan Bayar is a research assistant and a PhD student at Mechanical Engineering Department of Middle East Technical University, Ankara, Turkey. He is a member of the Mechatronic Research Team of the ME department. His research interest is design and control of mobile robots and unmanned ground vehicles.



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