

MOBILE ROBOTICS - THE FUTURE OF INDOOR LOGISTICS

ABSTRACT

Mobile robotics will change the current indoor logistics in near future. Self-navigating Autonomous Indoor Vehicles (AIVs) are designed to move materials in challenging environments that may include confined passageways as well as dynamic and peopled locations. Unlike traditional autonomously guided vehicles (AGVs), AIVs requires no facility modifications, such as floor magnets or navigational beacons, saving users deployment costs. Mobile robots typically include proprietary software and controls allowing it to intelligently navigate around people and unplanned obstacles that render traditional AGVs incapacitated. Software tools are getting more and more easy to use and therefore the system can be programmed and made functional within few hours. Designed for developers, integrators, and end-users the system can be customized for a variety applications and payloads. Manufacturing, warehousing, clean tech, and laboratories are just a few environments ideal for Mobile robots. The cost of ownership is low and user experience is high which makes current mobile robotics solutions affordable to the end users. The payback time is short especially in application areas where the human labour can be reused in more productive operations. In this presentation we will go through some real-life examples where to use mobile robotics solutions in industrial automation environments.

AUTHOR INFORMATION

Samuli Bergström

Nordic Industrial Marketing Manager

Omron Electronic Oy

Bertel Jungin aukio 7b, 02600 ESPOO, Finland

Phone +358505635337

Email samuli.bergstrom@eu.omron.com