

Industrial Mobile Robot

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Abstracts

Robot: the ultimate automation equipment. They had been around for quite sometimes. There were many types of robot and were used to do many specific tasks. They were mainly powered by mass-weight, spring or kinetic energy. Their functions used to be limited by programming based on mechanical sequencer only. However things start to get easier in modern day. New materials, computer era and chemical batteries enable robotic design to be much easier and able to do more complex tasks. They are designed to help people to do jobs faster, more accurate and increase productivity of mankind in twentieth century. Unintentionally robots are still considered somewhat unsafe to be working among human environment. As a result, robot technology such as fixed robot arms are often set to work separately from human in defined areas.

However, in 21st century, there is also another type of emerging robot technology called Mobile robots, which are designed to do different kind of jobs. With the capability to move around they enhance the abilities to do many more things and be able to work among human. The presentation will explain how it can be done with what kind of algorithm and what the possible applications are.

Biography



Education :

- Ph.D., Electrical Engineering, University of Missouri-Rolla, U.S.A.

Experiences :

- Board member of Nano Technology Center (NANOTEC), National Science and Technology Development Agency
- Board member of The Electrical and Electronics Institute (EEI), Ministry of Industry
- Vice Chairman, the Federation of Thai Industries.

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