



Dr. Mohammed Abdo Hashem

Senior.Lecturer
Faculty of Manufacturing Engineering,
Universiti Malaysia Pahang,
MALAYSIA.
Tel: 609-424 5912
Email: hashem@ump.edu.my

Academic Qualification

Ph.D in Robotics (2014)

Universiti Teknologi Malaysia, Skudai, Malaysia

PhD Thesis: Autonomous Mobile Robot Navigation and Control in Road Following and Roundabout Environments Incorporating Laser Range Finder and Vision System.

Master of Science in Mechatronics (2010)

University of Siegen, Siegen, Nordrhein-Westfalen, Germany

Bachelor of Engineering in Mechanical Engineering (2003)

Tishreen University, Lattakia, Syria

Research Interests

My research interests include, but are not limited to the following areas: Autonomous Mobile Robot Navigation, Robot Path Planning, Industrial Robotics, Mobile Manipulators, Sensors Fusion, Mechatronics Systems, Automation and Control, Intelligent Active Force Control, Signal and Image Processing .

Research Project

Project member: Autonomous Mobile Robot Navigation in the open space area of the Road Considering Various Scenarios; UTM- GUP-Tier 1, RM 100K , Vote No: 03H17; (2011-2013).

Project member: Autonomous Robotics Platform for On-The-Road Painting; UTM-GUP-Tier 1, RM 180K Vote No: 04H72; (2012-2014).

Project Member: Automated Inspection Machine for Symmetrical Rotational Products; University of Siegen-Germany (2009-2010).

Project Member: Airfoil Broadband Noise Prediction Based on Large-Eddy Simulation and Vortex Sound Theory. University of Siegen, Nr. A08-4/1(2008-2009)

Teaching / Working Experience

- Jan 2015 – Ongoing Senior Lecturer at Faculty of Manufacturing; Universiti Malaysia Pahang.
- May2014- Dec. 2014 Visiting Researcher at E-Element Technology, MTDC-UTM.
- 2009- 2014 Lecturer at the Faculty of Engineering- Department Industrial Engineering, Taiz-University, Yemen.
- 2005-2009 Assistant Lecturer at the Faculty of Engineering- Department Industrial Engineering, Taiz-University, Yemen.

- 2004-2005 Head of Operation and Maintenance Department in National Water and Environment Authority-Amran, Yemen.
- 2003-2004 Engineer in Yemen National Company for Sponge and Plastic Industry Ltd, Sana'a-Yemen.

Research Publications (Selected)

- Mohammed A. H. Ali, Musa Mailah, Tang Howe Hing. Localization and Control of Mobile Robot in Road Environments using Sensors Fusion and Active Force Control. Accepted in *IEEE Transaction on Intelligent Transportation System (ISI, IF=3.06)*.
- Mohammed A. H. Ali, Musa Mailah, Tang Howe Hing. Path Planning of Mobile Robot for Autonomous Navigation of Road Roundabout Intersection. *International Journal of Mechanics (Scopus)*. 2012. 6(4), 203-211.
- Mohammed A. H. Ali, Musa Mailah, Tang Howe Hing. Algorithm for Detect Roundabout Environments for Mobile Robot based on Laser Range Finder and Camera. *Applied mechanics and materials (Scopus)*. 2014. 465-466 (2014), 796-800.
- Mohammed A. H. Ali, Musa Mailah, Tang Howe Hing. Autonomous Mobile Robot Platform for on-the-Road Painting. *Advanced material research (Scopus)*. 2014. 845(2014), 750-754.
- Mohammed A. H. Ali, Musa Mailah, Tang Howe Hing. Implementation of Laser Simulator Search Graph for Detection and Path Planning in Roundabout Environments. *WSEAS Transaction on Signal Processing (Scopus)*. 2014. 10(2014).118-126.