Close

Web of Science™
Page 1 (Records 1 -- 1)

Print

[1]

Record 1 of 1

Title: Simulator Based Study of Robot Alignment and Localization

Author(s): Indreica, S (Indreica, Sinziana); Stancovici, A (Stancovici, Andrei); Micea, MV (Micea, Mihai V.); Cretu, V (Cretu, Vladimir); Groza, V (Groza, Voicu)

Book Group Author(s): IEEE

Source: 2013 IEEE INTERNATIONAL SYMPOSIUM ON ROBOTIC AND SENSORS ENVIRONMENTS (ROSE 2013) **Published:** 2013

Times Cited in Web of Science: 0

Total Times Cited: 0

Cited Reference Count: 13

Abstract: Localization techniques are of key interest for mobile robot groups. A certain node is usable by the system when its position is known and it can communicate (one-way or two-ways). Ideally, the localization should be quick, precise and with low resource consumption. For this, the possibilities to keep track of the node should be seen as parameters and modified to obtain the best results. To study such a localization case of a group of robots we developed a simulation environment based on the hardware configuration from our previous work (mobile robots with wireless communication and ultrasound based location system). This paper aims to show the impact certain parameters and situations have on the localization problem.

Accession Number: WOS:000331116000018

Language: English

Document Type: Proceedings Paper

Conference Title: 11th IEEE International Symposium on Robotic and Sensors Environments (ROSE)

Conference Date: OCT 21-23, 2013

Conference Location: Washington, DC

Conference Sponsors: Inst Elect & Elect Engineers, Inst Elect & Elect Engineers, Instrumentat & Measurement Soc, George Washington Univ, Sch Engn & Appl Sci, IMS, TC 15 Virtual Syst Measurements, IMS, TC 22 Intelligent Measurement Syst, IMS, TC 27 Human Comp Interface & Interact, IMS, TC 28 Instrumentat Robot & Automat, IMS, TC 30 Secur & Contraband Detect Tech Comm

Conference Host: George Washington Univ

Author Keywords: robot alignment; robot simulator; localization; turret; ultrasonic transducer

Addresses: [Indreica, Sinziana; Stancovici, Andrei; Micea, Mihai V.; Cretu, Vladimir] Politehn Univ Timisoara, Comp & Software Engn Dept, Timisoara, Romania.

Reprint Address: Indreica, S (reprint author), Politehn Univ Timisoara, Comp & Software Engn Dept, Timisoara, Romania.

E-mail Addresses: z_aidi_z@yahoo.com; stancovici@dsplabs.cs.upt.ro; mihai.micea@cs.upt.ro; vladimir.cretu@cs.upt.ro; vgroza@uottawa.ca

Publisher: IEEE

Publisher Address: 345 E 47TH ST, NEW YORK, NY 10017 USA

Web of Science Categories: Automation & Control Systems; Engineering, Manufacturing; Engineering, Electrical & Electronic; Robotics

Research Areas: Automation & Control Systems; Engineering; Robotics

IDS Number: BA0EY

ISBN: 978-1-4673-2938-5

ISBN: 978-1-4673-2939-2

Source Item Page Count: 5

Close

Web of Science™
Page 1 (Records 1 -- 1)

Print

[1]