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Indoor Inter-Robot Distance Measurement in Collaborative Systems

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Author keywords

collaborative system, distance measurement, indoor communication, mobile robots, sonar

Information

This paper appears in: Advances in Electrical and Computer Engineering

Available online: 2010-08-31

Volume 10, Number 3, Year 2010, On page(s): 21 - 26

ISSN: 1582-7445, e-ISSN: 1844-7600

Digital Object Identifier: 10.4316/AECE.2010.03004

PUBLISHER

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ISSN: 1582-7445

e-ISSN: 1844-7600

doi: 10.4316/aece

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Abstract

This paper focuses on the problem of autonomous distance calculation between multiple mobile robots in collaborative systems. We propose and discuss two distinct methods, specifically developed under important design and functional constraints, such as the speed of operation, accuracy, energy and cost efficiency. Moreover, the methods are designed to be applied to indoor robotic systems and are independent of fixed landmarks. The measurement results, performed on the CORE-TX case study, show that the proposed solutions meet the design requirements previously specified.



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Content updated on 01 SEP 2010. Site engine v2.5 last updated on 01 SEP 2010.

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