IEEE.org | IEEE *Xplore* Digital Library | IEEE Standards | IEEE Spectrum | More Sites

IEEE Xplore DIGITAL LIBRARY

Access provided by:
Amirkabir University of Technology
Sign Out

Browse Conference Publications > Industrial Electronics (ISIE) ...

Distributed QoS routing algorithm in large scale Wireless S Networks

This paper appears in:
Industrial Electronics (ISIE), 2012 IEEE International Symposium on
Date of Conference: 28-31 May 2012
Author(s): Kordafshari, Mohammad Sadegh
Department of Computer Engineering, Science And Research Branch, Islamic Azad University (IAU), Tehran, Iran
Pourkabirian, Azadeh ; Meybodi, Mohammad Reza ; Movaghar, Ali
Page(s): 826 - 830
Product Type: Conference Publications

ABSTRACT

This paper presents a novel routing protocol based on the Learning Automata method for large sc Sensor Networks (WSNs) codenamed DRLR (distributed reinforcement learning routing). In this m is equipped with learning automata so that it can learn the best path to transmit data toward the approach proved to be efficient, reliable, and scalable. It also prevents routing hole by considerin and average of energy levels available. The approach also increases network lifetime by balancing consumption. We compared our approach to two other methods (MMSPEED and EESPEED) and th results show our algorithm to better meet end-to-end delay and reliability requirements and to im lifetime more

INDEX TERMS

- **IEEE Terms**
  Delay , Learning automata , Reliability , Routing , Routing protocols , Silicon , Wireless sensor networ

Additional Details

On page(s): 826
Conference Location : Hangzhou, China
ISSN : 2163-5137
E-ISBN : 978-1-4673-0157-2
Print ISBN: 978-1-4673-0159-6
Digital Object Identifier : 10.1109/ISIE.2012.6237195
Date of Current Version : 12 July 2012
Issue Date : 28-31 May 2012

IEEE Account

Change Username/Password

Update Address

Purchase Details

Payment Options

Order History

Access Purchased Documents

Profile Informa

Communications Pr

Profession and Edu

Technical Interests

About IEEE *Xplore* | **Contact** | **Help** | **Terms of Use** | **Nondiscrimination Policy** | **Site Map** | **Privacy &**

A non-profit organization, IEEE is the world's largest professional association for the advancement of technology.
© Copyright 2012 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditio

This document was created with Win2PDF available at http://www.daneprairie.com.
The unregistered version of Win2PDF is for evaluation or non-commercial use only.