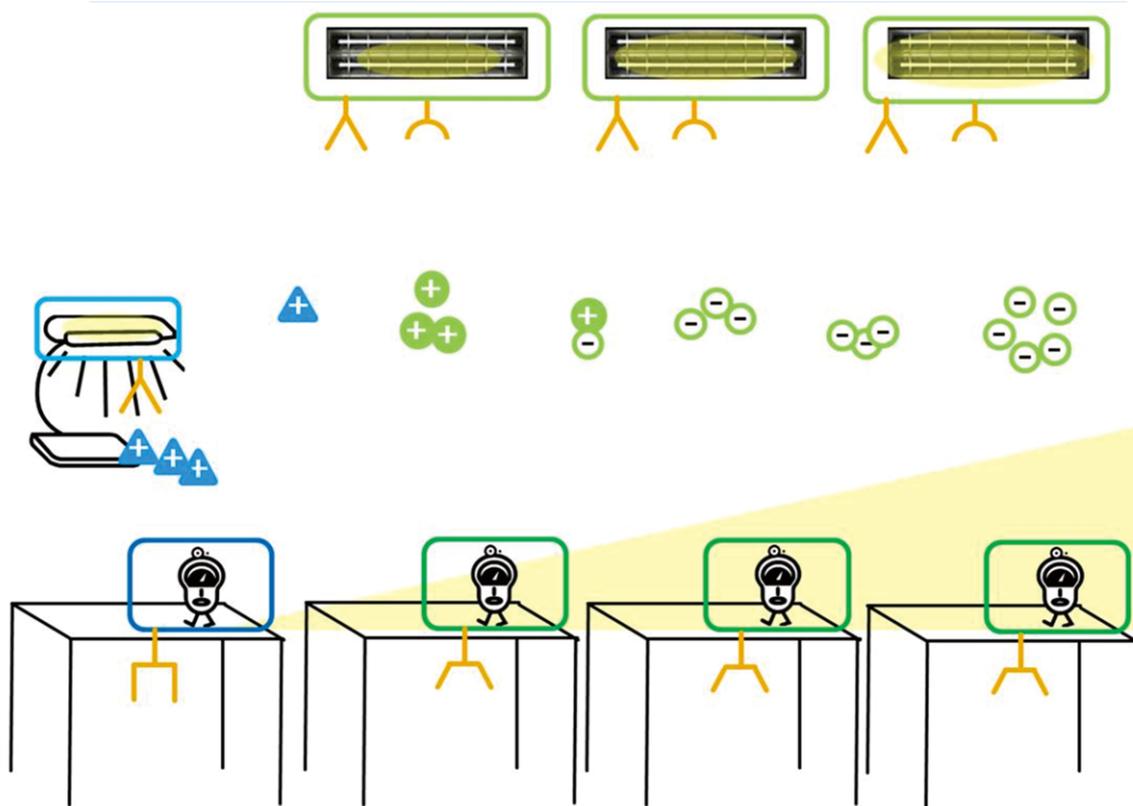




Intelligent Control and Automation



ISSN: 2153-0653



Journal Editorial Board

ISSN Print: 2153-0653 ISSN Online: 2153-0661
<http://www.scirp.org/journal/ica>

Editor-in-Chief

Prof. Theodore B. Trafalis University of Oklahoma, USA

Editorial Board

Prof. Pablo Cortés Achedad University of Seville, Spain
Prof. Jan Awrejcewicz The Lodz University of Technology, Poland
Prof. Celal Batur University of Akron, USA
Dr. Mohammed Chadli University of Picardie Jules Verne, France
Dr. Naoufel Cheikhrouhou Swiss Federal Institute of Technology, Switzerland
Prof. Zoran Gajic Rutgers University, USA
Prof. Vic Grout Glyndwr University, UK
Prof. Yanxiang He Wuhan University, China
Dr. Carlos C. Insaurralde Heriot-Watt University, UK
Prof. Piotr Kulczycki Polish Academy of Sciences, Poland
Prof. Akihiko Kumagai California State University, USA
Prof. Guay Martin Queen's University, Canada
Prof. Amalendu Mukherjee Indian Institute of Technology, India
Dr. Chang-Woo Park Korea Electronics Technology Institute, South Korea
Prof. Dilip Kumar Pratihar Indian Institute of Technology, India
Dr. Jianbin Qiu Harbin Institute of Technology, China
Dr. Peter Simon Sapaty National Academy of Sciences of Ukraine, Ukraine
Prof. Yung C. Shin Purdue University, USA
Dr. José Reinaldo Silva University of São Paulo, Brazil
Dr. Jue Wang Chinese Academy of Sciences, China
Dr. Ronglong Wang University of Fukui, Japan
Dr. Wai-Keung Wong Hong Kong Polytechnic University, Hong Kong (China)
Prof. Lei Xie Northwestern Polytechnical University, China
Prof. Ruey-Fang Yu National United University, Chinese Taipei

TABLE OF CONTENTS

Volume 4 Number 2

May 2013

Mathematical Models of Emotional Robots with a Non-Absolute Memory O. G. Pensky, Y. A. Sharapov, K. V. Chernikov.....	115
ISPO: A New Way to Solve Traveling Salesman Problem X. H. Wang, A. Q. Mu, S. S. Zhu.....	122
Particle Swarm Optimization (PSO) Based Turbine Control A. Tarique, H. A. Gabbar.....	126
Homeostasis Lighting Control System Using a Sensor Agent Robot T. Akiba, A. Mita.....	138
A Tree-Type Memory Formation by Sensorimotor Feedback: A Possible Approach to the Development of Robotic Cognition F. Alnajjar, I. M. Zin, A. R. Hafiz, K. Murase.....	154
Modeling and Adaptive Control of an Omni-Mecanum-Wheeled Robot L.-C. Lin, H.-Y. Shih.....	166
Dynamic Friction Behaviors of Pneumatic Cylinders X. B. Tran, H. Yanada.....	180
Increase of Indicator Values of Identification Systems Quality on the Recognition of Human Face on the Basis of Photo Portraits T. Kazimov, S. Mahmudova.....	191
Optimal Seat and Suspension Design for a Half-Car with Driver Model Using Genetic Algorithm W. Abbas, A. Emam, S. Badran, M. Shebl, O. Abouelatta.....	199
Navigation Strategy with the Aid of the Theater Positioning System X. Ma, S. M. Djouadi, P. Crilly, S. Smith.....	206
Domination in Controlled and Observed Distributed Parameter Systems L. Afifi, M. Joundi, E. M. Magri, A. El Jai.....	217
Identification of Categorical Registration Data of Domain Names in Data Warehouse Construction Task R. Alguliev, R. Gasimova.....	227
Dynamic Leveling Control of a Wireless Self-Balancing ROV Using Fuzzy Logic Controller M. A. Ayob, D. Hanafi, A. Johari.....	235

The figure on the front cover is from the article published in *Intelligent Control and Automation*, 2013, Vol. 4, No. 2, pp. 138-153 by Tatsuya Akiba and Akira Mita.

Intelligent Control and Automation (ICA)

Journal Information

SUBSCRIPTIONS

The *Intelligent Control and Automation* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$59 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright©2013 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

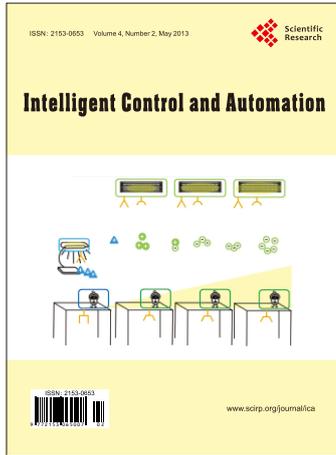
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: ica@scirp.org



Intelligent Control and Automation (ICA)

ISSN Print: 2153-0653, ISSN Online: 2153-0661

<http://www.scirp.org/journal/ica>

Intelligent Control and Automation is an open access, peer-reviewed and fully refereed journal focusing on theories, methods and applications in intelligent control and automation. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of intelligent control and automation.

Editor-in-Chief

Prof. Theodore B. Trafalis

University of Oklahoma, USA

Subject Coverage

All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

- Adaptive Controls
- Advanced Control Algorithms and Applications
- Artificial Intelligence and Knowledge Engineering
- Automation System
- Autonomous Systems
- Complex Systems and Intelligent Robots
- Complex Systems, Logistics, and Supply Chain
- Computational Intelligence and Applications
- Control Theory and Control Engineering
- Cooperative Controls (Agent Based Systems)
- Distributed Parameter Systems
- Dynamic Data Driven Application Systems in Intelligent Control
- Ecosystems and Control
- Electronic Commerce and Office Automation
- Hybrid Systems
- Industrial Automation and Online Monitoring
- Integrated and Complex Automation Systems
- Intelligent Automation and Manufacturing
- Intelligent Control Theory and Applications
- Intelligent Management and Decision Making
- Mechanical Engineering and Automation
- Modeling, Identification, and Fault Diagnosis
- Navigation Control Theory and Applications
- Network Intelligence and Network Control
- Optimization
- Power Systems and Automation
- Robotics, Service and Medical Robotics
- Soft Computings
- Systems and Control Theory and Applications
- Systems Engineering and Engineering Optimization
- Water and Natural Resource Management

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the *ICA*.

Notes for Intending Authors

Submitted papers should not be previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers will be peer reviewed. For more details about the submission, please access the website.

Website and E-Mail

<http://www.scirp.org/journal/ica>

E-mail: ica@scirp.org