

International Journal of Cognitive Informatics and Natural Intelligence

January-March 2015, Vol. 9, No. 1

Table of Contents

SPECIAL ISSUE ON COGNITIVE-BASED DATA SENSING IN THE BIG DATA ERA, PART 1

GUEST EDITORIAL PREFACE

- iv Zheng Xu, *The Third Research Institute of the Ministry of Public Security, Shanghai, China & Tsinghua University, Beijing, China*
Yunhui Liu, *The Third Research Institute of the Ministry Of Public Security, Shanghai, China*
Haizhong An, *China University of Geosciences, Beijing, China*
Hui Zhang, *Tsinghua University, Beijing, China*

RESEARCH ARTICLES

- 1 **The Research on Aggregate Analysis of the Regulatory Detailed Planning by considering the Traffic Capacity**
Xiangqiang Lou, Architecture School, Chang'an University, Shaanxi, China
Quanhua Hou, Architecture School, Chang'an University, Shaanxi, China
- 16 **Semantic Based Annotation for Surveillance Big Data Using Domain Knowledge**
Feng Xie, Jiangsu University of Technology, Changzhou, China
Zheng Xu, The Third Research Institute of the Ministry of Public Security, Shanghai, China & Tsinghua University, Beijing, China
- 30 **Pricing and Inventory Strategy of Dual-channel Supply Chain under Random Demand and Retailer's Capital Constraint**
Hehua Fan, Department of Mathematics and Physics, Zhengzhou Institute of Aeronautical Industry Management, Henan, China & Coordinative Innovation Center for Aviation Economic Development, Henan Aviation Economy Research Center, Henan, China
Yongwei Zhou, Department of Mathematics and Physics, Zhengzhou Institute of Aeronautical Industry Management, Henan, China
- 47 **Analysis for the Teaching-Method Reformation of Degree Students Based on PBL Theory**
Ying Wang, University of Science and Technology Liaoning, Liaoning, China
Xin Jiang, University of Science and Technology Liaoning, Liaoning, China
- 60 **The Evaluation and Optimization to the Higher Educational Resource Allocation**
Shaohua Cheng, Department of Mathematics and Physics, Zhengzhou Institute of Aeronautical Industry Management, Henan, China & Coordinative Innovation Center for Aviation Economic Development, Henan Aviation Economy Research Center, Henan, China
Yongwei Zhou, Department of Mathematics and Physics, Zhengzhou Institute of Aeronautical Industry Management, Henan, China & Coordinative Innovation Center for Aviation Economic Development, Henan Aviation Economy Research Center, Henan, China

Copyright

The **International Journal of Cognitive Informatics and Natural Intelligence (IJCINI)** (ISSN 1557-3958; eISSN 1557-3966), Copyright © 2015 IGI Global. All rights, including translation into other languages reserved by the publisher. No part of this journal may be reproduced or used in any form or by any means without written permission from the publisher, except for noncommercial, educational use including classroom teaching purposes. Product or company names used in this journal are for identification purposes only. Inclusion of the names of the products or companies does not indicate a claim of ownership by IGI Global of the trademark or registered trademark. The views expressed in this journal are those of the authors but not necessarily of IGI Global.

The *International Journal of Cognitive Informatics and Natural Intelligence* is indexed or listed in the following: ACM Digital Library; Bacon's Media Directory; Cabell's Directories; Compendex (Elsevier Engineering Index); CSA Illumina; DBLP; Gale Directory of Publications & Broadcast Media; GetCited; Google Scholar; INSPEC; JournalTOCs; MediaFinder; PsycINFO®; SCOPUS; The Index of Information Systems Journals; The Standard Periodical Directory; Ulrich's Periodicals Directory