# **International Journal of Cognitive Informatics and Natural Intelligence**

April-June 2014, Vol. 8, No. 2

# **Table of Contents**

## EDITORIAL PREFACE

#### **EDITORIAL**

Yingxu Wang, Department of Electrical and Computer Engineering, Schulich School of Engineering, University of Calgary, Calgary, Canada

### Research Articles

#### Computational Creativity: Improv Agents and Conceptual Blending

Rania A. Hodhod, ADAM Lab, Georgia Institute of Technology, Atlanta, GA, USA & TSYS School of Computer Science, Columbus State University, Columbus, GA, USA

Brian S. Magerko, ADAM Lab, Georgia Institute of Technology, Atlanta, GA, USA

#### Toward Efficient Segmentation of Brain Tumors Based on Support Vector Machine Classifier Through **Optimized RBF Kernel Parameters and Optimal Texture Features**

Ahmed Kharrat, Computer Embedded Systems Laboratory (CES), University of Sfax, Sfax, Tunisia Mohamed Abid, Computer Embedded Systems Laboratory (CES), University of Sfax, Sfax, Tunisia

#### Fuzzy Causal Patterns of Humor and Jokes for Cognitive and Affective Computing

Yingxu Wang, Deptartment of Electrical and Computer Engineering, International Institute of Cognitive Informatics and Cognitive Computing, Alberta, Canada & Schulich School of Engineering and Hotchkiss Brain Institute, University of Calgary

# Cognitive Chance Discovery: From Abduction to Affordance and Curation

Akinori Abe, Faculty of Letters, Chiba University, Chiba, Japan

#### Copyright

The International Journal of Cognitive Informatics and Natural Intelligence (IJCINI) (ISSN 1557-3958; eISSN 1557-3966), Copyright © 2014 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  $Illumina; DBLP; Gale\ Directory\ of\ Publications\ \&\ Broadcast\ Media; GetCited; Google\ Scholar; INSPEC; Journal\ TOCs;$ MediaFinder; PsycINFO®; SCOPUS; The Index of Information Systems Journals; The Standard Periodical Directory; Ulrich's Periodicals Directory