

IEEE **Computational Intelligence**

MAGAZINE

AUGUST 2016
VOLUME 11 NUMBER 3
WWW.IEEE-CIS.ORG



- 10 **Leveraging Cross-Domain Social Media Analytics to Understand TV Topics Popularity**
- 22 **An Efficient Memetic Algorithm for Influence Maximization in Social Networks**
- 34 **Learning User and Product Distributed Representations Using a Sequence Model for Sentiment Analysis**
- 45 **Statistical Learning Theory and ELM for Big Social Data Analysis**

IEEE Computational Intelligence MAGAZINE

Volume 11 Number 3 □ August 2016
www.ieee-cis.org



on the cover

IMAGE © ISTOCKPHOTO.COM/ANI_KA

Features

- 10 Leveraging Cross-Domain Social Media Analytics to Understand TV Topics Popularity**
by Ruggero G. Pensa, Maria Luisa Sapino, Claudio Schifanella, and Luca Vignaroli
- 22 An Efficient Memetic Algorithm for Influence Maximization in Social Networks**
by Maoguo Gong, Chao Song, Chao Duan, Lijia Ma, and Bo Shen
- 34 Learning User and Product Distributed Representations Using a Sequence Model for Sentiment Analysis**
by Tao Chen, Ruifeng Xu, Yulan He, Yunqing Xia, and Xuan Wang
- 45 Statistical Learning Theory and ELM for Big Social Data Analysis**
by Luca Oneto, Federica Bisio, Erik Cambria, and Davide Anguita

Columns

- 56 Research Frontier**
Collaborative Brain-Computer Interface for People with Motor Disabilities
by Yueqing Li and Chang S. Nam
- 67 Discussion Forum**
Human vs. Computer Go: Review and Prospect
by Chang-Shing Lee, Mei-Hui Wang, Shi-Jim Yen, Ting-Han Wei, I-Chen Wu, Ping-Chiang Chou, Chun-Hsun Chou, Ming-Wan Wang, and Tai-Hsiung Yang

Departments

- 2** Editor's Remarks
- 3** President's Message
by Pablo A. Estévez
- 4** Conference Reports
Conference Report on 2015 IEEE
Conference on Computational
Intelligence and Games
(IEEE CIG 2015)
*by Chang-Shing Lee, I-Chen Wu,
and Mei-Hui Wang*
- 6** Publication Spotlight
*by Haibo He, Chin-Teng Lin,
Kay Chen Tan, Graham Kendall,
and Yaochu Jin*
- 8** Guest Editorial
Computational Intelligence
for Big Social Data Analysis
*by Erik Cambria, Newton Howard,
Yunqing Xia, and Tat-Seng Chua*
- 74** Conference Calendar
by Bernadette Bouchon-Meunier

IEEE Computational Intelligence Magazine (ISSN 1556-603X) is published quarterly by The Institute of Electrical and Electronics Engineers, Inc. **Headquarters:** 3 Park Avenue, 17th Floor, New York, NY 10016-5997, U.S.A. +1 212 419 7900. Responsibility for the contents rests upon the authors and not upon the IEEE, the Society, or its members. The magazine is a membership benefit of the IEEE Computational Intelligence Society, and subscriptions are included in Society fee. Replacement copies for members are available for US\$20 (one copy only). Nonmembers can purchase individual copies for US\$191.00. Nonmember subscription prices are available on request. **Copyright and Reprint Permissions:** Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limits of the U.S. Copyright law for private use of patrons: 1) those post-1977 articles that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01970, U.S.A.; and 2) pre-1978 articles without fee. For other copying, reprint, or republication permission, write to: Copyrights and Permissions Department, IEEE Service Center, 445 Hoes Lane, Piscataway NJ 08854 U.S.A. Copyright © 2016 by The Institute of Electrical and Electronics Engineers, Inc. All rights reserved. Periodicals postage paid at New York, NY and at additional mailing offices. Postmaster: Send address changes to IEEE Computational Intelligence Magazine, IEEE, 445 Hoes Lane, Piscataway, NJ 08854-1331 U.S.A. PRINTED IN U.S.A. Canadian GST #125634188.

