# International Journal of Computational Intelligence Research (IJCIR) ISSN 0973-1873

# **Editor-in-chief**

Ajith Abraham School of Computer Science and Engineering Chung-Ang University 221, Heukseok-dong, Dongjak-gu Seoul 156-756, Korea Email: ajith.abraham@ieee.org

## **Managing Editor**

Crina Grosan Department of Computer Science, Babes-Bolyai University, Romania

## **Associate Editors**

Y. Chen, Jinan University, *China*H. Ishibuchi, Osaka Prefecture University, *Japan* 

**A. Satyadas,** IBM Corporation, Cambridge, *USA* **N. Nedjah,** Universidade do Estado do Rio de Janeiro, *Brazil* 

## **Editorial Board**

A. Atiya, Cairo University, Egypt A. Aggarwal, University of Windsor, Canada C. Bessiere, LIRMM-CNRS, France C.A. Coello Coello, CINVESTAV-IPN, Mexico **D.** Corne, University of Exeter, UK **B. De Baets,** Ghent University, *Belgium* Y. Dote, Muroran Institute of Technology, Japan T. Fukuda, Nagoya University, Japan L.C. Jain, University of South Australia, Australia M. Gams, Jozef Stefan Institute, Slovenia A. Gelbukh, National Polytechnic Institute, Mexico **B. Grabot,** LGP-ENIT, *France* J.L. Grantner, Western Michigan University, USA S. Hawamdeh, University of Oklahoma, USA J. Kacprzyk, Polish Academy of Sciences, Poland S.G. Kong, The University of Tennessee, USA D.H. Kraft, Louisiana State University, USA V. Kreinovich, University of Texas at El Paso, USA R. Kruse, Universitaet Magdeburg, Germany C.T. Lin, National Chiao-Tung University, Taiwan

- R. Langari, Texas A&M University, USA
- J. Ruiz del Solar, Universidad de Chile, Chile
- **R. Poli,** University of Essex, UK
- M. Köppen, Fraunhofer IPK-Berlin, Germany
- V. Loia, University of Salerno, Italy
- J.M. Mendel, University of Southern California, USA
- **R.E. Mercer,** The University of Western Ontario, *Canada*
- G.C. Nandi, IIIT-Allahabad, India
- V. Palade, Oxford University, UK
- W. Pedrycz, University of Alberta, Canada
- I. Perfilieva, University of Ostrava, Czech Republic
- G. Rudolph, University of Dortmund, Germany
- Q. Shen, University of Wales, UK
- T. Sudkamp, Wright State University, USA
- R. Sun, Rensselaer Polytechnic Institute, USA
- G. Tecuci, George Mason University, USA
- F.Herrera, University of Granada, Spain
- R.R. Yager, Iona College, USA
- **X.J. Zeng,** University of Manchester, *UK*
- W. Zhang, Dalian Maritime University, China
- **Z.** Yi, University of Electronic Science and Technology, *China*

# Published by <u>RIP</u> Research India Publications

# **International Journal of Computational Intelligence Research**

http://www.ijcir.info

## Aim and Scope

Computational intelligence is a well-established paradigm, where new theories with a sound biological understanding have been evolving. The current experimental systems have many of the characteristics of biological computers and are beginning to be built to perform a variety of tasks that are difficult or impossible to do with conventional computers. In a nutshell, which becomes quite apparent in light of the current research pursuits, the area is heterogeneous as being dwelled on such technologies as neurocomputing, fuzzy systems, probabilistic reasoning, artificial life, evolutionary algorithms, multi-agent systems etc. IJCIR is a peer reviewed international journal with a key objective to provide the academic and industrial community a medium for presenting original cutting edge research related to computational intelligence and its applications. IJCIR invites authors to submit their original and unpublished work that communicates current research on computational intelligence both the theoretical and methodological aspects, as well as various applications in real world problems from science, technology, business or commerce.

#### Abstracted/Indexed in

ACM Computing Reviews, ACM Guide to Computing Literature, DBLP.

#### **Frequency of Publication**

Publish one volume with two issues this year.

#### **Guidelines for Contributors**

IJCIR publishes two types of articles: regular papers and brief papers. Review management is primarily under the direction of an associate editor, who will solicit reviews for each submission. The associate editor will ordinarily make a recommendation after receiving three independent reviews. To avoid delays in processing your paper, please follow these guidelines.

#### **Submission of Manuscripts**

All correspondence concerning submissions is between the author and the Editor in Chief. To submit your paper for consideration, visit the web submission system found at http://ijcir.ujn.edu.cn/author/submit.php

Submitted papers must be in English and should not have been published elsewhere or being currently under consideration by any other journal. The final decision on publication is made by the Editor-in-Chief upon recommendation of an Associate Editor and / or an Editorial Board Members.

International Journal of Computational Intelligence Research is online at http://www.ijcir.info. Visit the journal's home pages for details of aims and scope, readership, instruction to authors and publishing procedure and table of contents. Use website to order a subscription, reprints, a sample copy or individual articles.

#### **Subscription Information**

Subscription orders may be directed to the publisher or contact your preferred subscription agent.

Regular subscription price for 2006 US\$120/Libraries and US\$80/Individual (Outside India) Rs.1500/Libraries and Rs.1200/Individual (Inside India)

Publisher : All business correspondence, enquires and subscription orders should be addressed to

Research India Publications Head Office: D1/71, Top Floor, Rohini Sec-16, Delhi-110085, India Fax No.: +91-011-27616774 Email: ripublication@vsnl.net Website: www.ripublication.com

© 2005 Research India Publication, India Printed in India

All material published in this journal is protected by copyright, which covers exclusive rights to reproduce and distribute the material. No material published in this journal may be reproduced or stored on microfilm or in electronic, optical or magnetic form without the written authorization of the publisher.