



International Journal of Knowledge-Based and Intelligent Engineering Systems

www.kesinternational.org/journal

Aims and Scope

The aim of research into Knowledge-Based and Intelligent Engineering is to develop systems that replicate the analytical, problem solving and learning capabilities of the brain. These systems bring the benefits of knowledge and intelligence to the solution of complex problems. This international journal provides a forum for publishing the results of recent research into the applications of intelligent systems, and also the tools and techniques necessary for them. Authors are invited to submit original unpublished work that is not currently under consideration for publication elsewhere, on the following topics:

Generic Intelligent Tools, Techniques and Algorithms:

Knowledge-Based Systems, Expert Systems, Neural Networks, Fuzzy Techniques and Systems, Genetic Algorithms and Evolutionary Computing, Hybrid Intelligent Systems, Intelligent Agents and Multi-Agent Systems, Knowledge Discovery and Data Mining, Machine Learning, Cognitive Modelling, Knowledge Representation and Management, Planning, Spatial & Temporal Reasoning, Knowledge Acquisition.

Applications using Intelligent Techniques:

Industrial Control and Monitoring, Fault Diagnosis, Robotics, Image Processing, Machine & Computer Vision, Medical & Diagnostic Systems, Financial & Stock Market Monitoring and Prediction, Speech Processing and Synthesis, Natural Language Processing, Environmental Monitoring, Power Electronics & Drives, High Voltage Systems, Engine Control and Vehicle Applications, Intelligent Signal Processing and Wavelets, Intelligent Customer Support systems.

Emerging Intelligent Technologies:

Artificial Intelligence and the Internet, Information Agents on the Internet, Intelligent E-commerce/E-business and E-learning, Intelligent Information Retrieval, Intelligent Web Mining & Applications, Intelligent User Interfaces, Bioinformatics using Intelligent & Machine Learning Techniques, Intelligent Tutoring Systems, Virtual Reality & Multi-Media Intelligent Information Systems, Artificial Life, Biologically Inspired Computation.

Editors-in-Chief

Prof. B. Gabrys
University of Bournemouth
United Kingdom

Dr. R.J. Howlett
KES International
United Kingdom

Founding Editor

Prof. L.C. Jain
University of South Australia
Australia

Correspondence Address

KES International (Journal Department)
PO Box 2115
Shoreham-by-sea
West Sussex
BN43 9AF
United Kingdom
Email: kesjournal@kesinternational.org

Associate Editors

Plamen Angelov (Lancaster University, United Kingdom), Dawn Holmes (University of California Santa Barbara, CA, USA), Yoshiteru Ishida (Toyohashi University of Technology, Japan), Miroslav Karny (Academy of Sciences, Czech Republic), Honghai Liu (University of Portsmouth, United Kingdom), Ngoc-Thanh Nguyen (Wroclaw University of Technology, Poland), Andreas Nuernberger (University of Magdeburg, Germany), Vasile Palade (University of Oxford, United Kingdom), Edward Szczerbicki (University of Newcastle, NSW, Australia).

Editorial Advisory Board

Please see the website for further information:
www.kesinternational.org/journal.

Submission of Papers

Prospective contributors are invited to send draft papers for consideration for the journal. To ensure high quality, all papers will be strictly reviewed by leading researchers in the area. As well as full length papers, conference reports and book reviews will be considered. Please submit papers as PDF documents using the online papers submission facility on the journal web site, where detailed instructions are available (www.kesinternational.org/journal).

Subscription Information

The *International Journal of Knowledge-Based and Intelligent Engineering Systems* (ISSN 1327-2314) will be published in 1 volume of 4 issues in 2010 (Volume 14). Institutional subscription (print and online): €308 / US\$435. Institutional subscription (online only): €270 / US\$380.

Abstracted/ Indexed in

EBSCO database, Inspec, io-port, MasterFILE.

Recent Contents Volume 13, Number 3-4 (2009)

Evolutionary algorithm for PCB inspection/ *A.J. Crispin and V. Rankov* – DOI 10.3233/KES-2009-0177

Towards an immunity-based system for detecting masqueraders/ *T. Okamoto and Y. Ishida* – DOI 10.3233/KES-2009-0178

Interactive fuzzy programming for two-level stochastic linear programming problems through expectation and variance models/ *K. Kato, M. Sakawa and H. Katagiri* – DOI 10.3233/KES-2009-0179

An adaptive multi-agent organization model based on dynamic role allocation/ *M. Hoogendoorn and J. Treur* – DOI 10.3233/KES-2009-0180

Integrity verification method for video content using robust watermarking/ *T. Yamada, Y. Takahashi, Y. Fujii, R. Ebisawa, H. Yoshiura and I. Echizen* – DOI 10.3233/KES-2009-0181

Particle swarm optimized hybrid fuzzy precompensated trajectory control of rigid-flexible manipulator/ *S. Alavandar, T. Jain and M.J. Nigam* – DOI 10.3233/KES-2009-0182

Design of novel hybrid controller for automatic generation control of hydrothermal system under open market scenario/ *C. Srinivasa Rao, S. Siva Nagaraju and P. Sangameswara Raju* – DOI 10.3233/KES-2009-0183

To explore or to exploit: An entropy-driven approach for evolutionary algorithms/ *S.-H. Liu, M. Mernik and B.R. Bryant* – DOI 10.3233/KES-2009-0184

✂ Order Form

Please complete this form and send it to your usual supplier or to:

IOS Press

Nieuwe Hemweg 6B
1013 BG Amsterdam
The Netherlands
Tel.: +31 20 688 3355
Fax: +31 20 687 0039
Email: market@iospress.nl
URL: www.iospress.nl

IOS Press c/o Accucoms US, Inc.

For North America Sales and
Customer Service
West Point Commons
Suite 201
Lansdale PA 19446
USA
Tel.: +1 866 855 8967
Fax: +1 215 660 5042
Email: iospress@accucoms.com

IOS
Press

Please complete this form and send it to your usual supplier or to one of the addresses on the left

Please enter my 2010 subscription to the *International Journal of Knowledge-Based and Intelligent Engineering Systems*

Institutional subscription (print and online): €308 / US\$435

Institutional subscription (online only): €270 / US\$380

Please bill me

Please charge my credit card

Amer. Express

Euro/Master

Visa

Exp. Date:

Security Code:

Card no.:

Name:

Address:

City/Zipcode:

Fax:

Date:

Country:

VAT no.:

Signature:

***Check our website for a free electronic sample copy of the *International Journal of Knowledge-Based and Intelligent Engineering Systems* ***

WWW.IOSPRESS.NL