



Integrated Computer-Aided Engineering

Impact Factor: 4.667 (JCR 2013)

(Ranking in the category Engineering, Multidisciplinary is 1 of 87; Ranking in the category Computer Science, Interdisciplinary Applications is 3 of 102; Ranking in the category Computer Science, Artificial Intelligence is 6 of 121)

Aims and Scope

Integrated Computer-Aided Engineering was founded in 1993. "Based on the premise that interdisciplinary thinking and synergistic collaboration of disciplines can solve complex problems, open new frontiers, and lead to true innovations and breakthroughs, the cornerstone of industrial competitiveness and advancement of the society" as noted in the inaugural issue of the journal. The focus of ICAE is the integration of leading edge and emerging computer and information technologies for innovative solution of engineering problems. The journal fosters interdisciplinary research and presents a unique forum for innovative computer-aided engineering. It also publishes novel industrial applications of CAE, thus helping to bring new computational paradigms from research labs and classrooms to reality. Areas covered by the journal include (but not limited to) artificial intelligence, advanced signal processing, biologically inspired computing, cognitive modeling, concurrent engineering, database management, distributed computing, evolutionary computing, fuzzy logic, genetic algorithms, geometric modeling, intelligent and adaptive systems, internet-based technologies, knowledge discovery and engineering, machine learning, mechatronics, mobile computing, multimedia technologies, networking, neural network computing, object-oriented systems, optimization and search, parallel processing, robotics virtual reality, and visualization techniques. The primary focus of the journal is novel computational modeling. Papers describing software development projects are not suitable. Papers integrating multiple fields in a novel way are particularly welcome.

Founder and Editor-in-Chief

Professor Hojjat Adeli
College of Engineering
The Ohio State University
470 Hitchcock Hall, 2070 Neil Avenue
Columbus, Ohio 43210-1275, USA.
E-mail: adeli.1@osu.edu

Editorial Advisory Board

A. Akay (USA), C.Y. Chang (Taiwan), T.S. Dillon (Australia), J. Dongarra (USA), M. Gini (USA), E.M. Greitzer (USA), L. Iliadis (Greece), M.F. Iskander (USA), T. Itoh (USA), M. Jamshidi (USA), R. Kruse (Germany), W. Kuo (Hong Kong), A. Kusiak (USA), M. Morari (Switzerland), C.D. Mote (USA), H. Mousavinezhad (USA), M.E. Pate-Cornell (USA), C.V. Ramamoorthy (USA), J.N. Reddy (USA), J.R. Rice (USA), C. Ruggiero (Italy), G. Salvendy (USA), M. Shur (USA), M.A. Simaan (USA), Yuping Wang (China), H.T.Y. Yang (USA), L.A. Zadeh (USA)

Call for Papers

Please email to the Editor-in-Chief

1) a statement that this manuscript is your "original unpublished work and the manuscript or any variation of it has not been submitted to another publication previously." 2) the pdf and Word files of your paper prepared according to the journal template (available on the journal web site). 3) The names, affiliations, and full contact information including email addresses of ten leading researchers who have published in the subject area of the paper. 4) Conscientious Reviewer form for each author (except students) (available on the journal web site).

Subscription Information

Integrated Computer-Aided Engineering (ISSN 1069-2509) will be published in 1 volume of 4 issues in 2015 (Volume 22).

- Institutional subscription (online only): €565 / US\$775
- Institutional subscription (print only): €605 / US\$831 (including postage and handling)
- Institutional subscription (print and online): €718 / US\$986 (including postage and handling)
- Individual subscription (online only): €145 / US\$195

Abstracted/Indexed in

Cambridge Scientific Abstracts, COMPENDEX PLUS, CompuMath Citation Index, CompuScience, Current Contents®/Engineering, Computing and Technology, EBSCO's database, INSPEC database, ISI Alerting Services, MasterFILE, PaperChem, Science Citation Index Expanded (SciSearch®), SCOPUS, Zentralblatt MATH.



Follow us on Twitter @IOSPress_STM

WWW.IOSPRESS.NL

Sample Articles

- Identification of anatomic retinal structures for macular delineation in fluorescein angiograms
R. Vargas-Cañas and P. Liatsis, City University of London
- Maximum Likelihood Motion Compensation for Distributed Video Coding
F. Verbist, N. Deligiannis, M. Jacobs, J. Barbarien, P. Schelkens and A. Munteanu, Vrije University of Brussels
- Causally-Guided Evolutionary Optimization and its Application to Antenna Array Design
T. Chabuk, J.A. Reggia, J. Lohn, and D. Linden, University of Maryland
- Teleoperation of Multi-Agent Systems with Nonuniform Control Input Delays
E.J. Rodriguez-Seda, D.M. Stipanovic, and M.W. Sponga, University of Illinois, Urbana, and University of Texas, Dallas
- A Quadsection Algorithm for Grammar-Based Image Compression
M. Hayashida, P. Ruan, and T. Akutsu, Kyoto University, Japan
- Genetic algorithm-based wrapper approach for grouping condition monitoring signals of nuclear power plant components
P. Baraldi, R. Canesi, E. Zio, R. Seraoui, and R. Chevalier, Polytechnic of Milan, Italy, and Ecole Centrale Paris, France
- Evaluation of Data Mining Approaches for the Control of Multifunctional Arm Prostheses
M. Reischl, L. Gröll, and R. Mikut, Karlsruhe Institute of Technology, Germany
- A Neural Stochastic Multiscale Optimization Framework for Sensor-based Parameter Estimation
R. Banchs, H. Klie, A. Rodriguez, S.G. Thomas, M.F. Wheeler, University of Texas, Austin

About the Editor-in-Chief

HOJJAT ADELI is Professor of Civil, Environmental, and Geodetic Engineering, Electrical and Computer Engineering, Biomedical Engineering, Biomedical Informatics, and Neuroscience at The Ohio State University. He has authored over 500 research publications, including 15 books, since he received his Ph.D. from Stanford University in 1976 at the age of 26. He has presented Keynote/Plenary Lectures at 97 computing conferences held in 43 different countries. He is the recipient of numerous awards and honors including, the University Distinguished Scholar Award given by The Ohio State University in 1998 *"in recognition of extraordinary accomplishment in research and scholarship"*. He is the quadruple-winner of the OSU College of Engineering Lumley Outstanding Research Award. In 1998 he was awarded a United States patent for his neural dynamics model for design automation and optimization (jointly with a former Ph.D. student). In 2005 he was elected a Distinguished Member of American Society of Civil Engineers *"for wide-ranging, exceptional, and pioneering contributions to computing in civil engineering and extraordinary leadership in advancing the use of computing and information technologies in many engineering disciplines throughout the world."* He received the ASCE Construction Management Award in 2006. In 2007 he received the Peter L. and Clara M. Scott Award for Excellence in Engineering Education *for sustained, exceptional, and multi-faceted contributions to numerous fields including computer-aided engineering, knowledge engineering, computational intelligence, large-scale design optimization, and smart structures with worldwide impact*, and Charles E. MacQuigg Outstanding Teaching Award from The Ohio State University College of Engineering. In 2008, he was elected a Fellow of the American Association for the Advancement of Science, *"for distinguished contributions to computational infrastructure engineering and for worldwide leadership in computational science and engineering."* He is also a Fellow of IEEE, a Fellow of the American Neurological Association, and the 2014 recipient of Eduardo Renato Caianiello Award from the Italian Society of Neural Networks (SIREN), and a Special Medal from the Polish Neural Network Society. In 2010 he was profiled as an *Engineering Legend* in the ASCE journal of *Leadership and Management in Engineering*.

**For more information, subscription options
and detailed instructions to authors visit:**

WWW.IOSPRESS.NL/INTEGRATED-COMPUTER-AIDED-ENGINEERING



Follow us on Twitter @IOSPress_STM

WWW.IOSPRESS.NL