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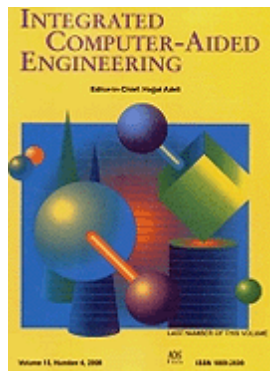
TRACKING TRENDS & PERFORMANCE IN BASIC RESEARCH

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Journal Interviews : 2010 : Hojjat Adeli on the Citation Record of Integrated Computer-Aided Engineering

JOURNAL INTERVIEWS - 2010

MONTH 2010



Integrated Computer-Aided Engineering

Featured Journal Interview

According to a recent analysis of *Essential Science Indicators*SM data from Thomson Reuters, the journal *Integrated Computer-Aided Engineering (ICAE)* is having a growing impact on the field of Computer Science. The journal's record in this field includes 274 papers cited a total of 449 times between January 1, 1999 and October 31, 2009.

ICAE was founded in 1993 by Dr. Hojjat Adeli and is published by IOS Press. Dr. Adeli is the Abba G. Lichtenstein Professor of Civil Engineering at The Ohio State University, a Distinguished Member of ASCE, and author of 14 pioneering and trend-setting books.

In the interview below, *ScienceWatch.com* talks with Dr. Adeli about *ICAE*'s publication history and citation record.

SW: Did you expect *ICAE* to become highly cited, or is this surprising to you?

Yes, I did expect that. It was just a matter of time.

SW: How would you account for the increased citation rate of *ICAE*?

The research in this area is becoming increasingly more interdisciplinary and *ICAE* is an interdisciplinary journal. Also, I am rejecting more papers and publishing more quality papers.

SW: What historical factors have contributed to the success of *Integrated Computer-Aided Engineering*?

I founded the international journal *ICAE* "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" as noted in my Editorial in the inaugural issue of the journal published in July 1993. At that time there was a lot of lip service. But now the value of multidisciplinary research is being increasingly recognized.



"...now the value of multidisciplinary research is being increasingly recognized."

SW: Have there been specific developments in the fields served by *ICAE* that may have contributed?

I have been advocating a multi-paradigm and multidisciplinary approach to complicated problem solving which is what *ICAE* as well as my 1995 book *Machine Learning—Neural Networks, Genetic Algorithms, and Fuzzy Systems* (John Wiley and Sons) pioneered.

My forthcoming book *Automated EEG-based Diagnosis of Neurological Disorders—Inventing the Future of Neurology* (CRC Press, February, 2010) is an outstanding example of the multi-paradigm and multidisciplinary approach.

SW: What, in your view, is this journal's main significance or contribution in the field of Computer Science?

There are many journals that focus on one intelligent-system problem-solving approach such as artificial intelligence (symbolic processing), neural networks, fuzzy logic, and evolutionary computing. This journal has an integrated approach. Complicated and seemingly intractable problems are best solved through this integrated approach. This is what I have been advocating and advancing since the early 1990s.

SW: How do you see your field(s) evolving in the next few years?

- A) Increasingly more multidisciplinary research, and
- B) integration of computer science and engineering. *ICAE* advances both.

SW: What role do you see for your journal?

The leading journal for integration of various computing and intelligent system paradigms and IT for solution of complicated engineering problems. ■

Integrated Computer-Aided Engineering

Dr. Hojjat Adeli, Founder and Editor-in-Chief

IOS Press, publishers

Additional information:

Integrated Computer-Aided Engineering is a **New Entrant** in Computer Science for February 2010.

KEYWORDS: MULTIDISCIPLINARY RESEARCH, COMPUTER-AIDED ENGINEERING, MACHINE LEARNING, NEURAL NETWORKS, GENETIC ALGORITHMS, FUZZY SYSTEMS, ARTIFICIAL INTELLIGENCE, EVOLUTIONARY COMPUTING.



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