



Integrated Computer-Aided Engineering

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Ranking in the category Engineering, Multidisciplinary is 1 of 85

Ranking in the category Computer Science, Interdisciplinary
Applications is 4 of 105

Ranking in the category Computer Science, Artificial Intelligence is 11 of 133

Aims and Scope

Integrated Computer-Aided Engineering (ICAE) 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 are 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.

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About the Editor-in-Chief and Founder:

Hojjat Adeli received his Ph.D. from Stanford University in 1976 at the age of 26. He is an Academy Professor at The Ohio State University where he held the Abba G. Lichtenstein Professorship for ten years. He has authored over 600 research and scientific publications in various fields of computer science, engineering, applied mathematics, and medicine, including 16 ground-breaking high-technology books, and holds a United States patent in the area of design optimization. He is the recipient of 55 awards and honors including an Honorary Doctorate. In 1998 he received the *Distinguished Scholar Award*, from The Ohio State University's highest research award "in recognition of extraordinary accomplishment in research and scholarship". In 2005, he was elected Distinguished Member, ASCE: "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." In 2007 he received the Peter L. and Clara M. Scott Award for Excellence in Engineering and Charles E. MacQuigg Outstanding Teaching Award from OSU. In 2010, he was profiled as an **Engineering Legend** in the ASCE journal of *Leadership and Management in Engineering*. He has presented 110 Keynote/Pleary Lectures at conferences held in 44 different countries. He has held Honorary/Distinguished Professorship at six Asian and European Universities, and served as Honorary Chair or member of the organizing/scientific board of nearly 400 conferences held in 64 different countries. He is a corresponding member of the Spanish Royal Academy of Engineering, a foreign member of Lithuanian Academy of Sciences and Polish Academy of Science, and a Fellow of AAAS, IEEE, AIMBE, and American Neurological Association. He is a Clarivate Analytics **Highly Cited Researcher** in two categories of *Computer Science* and *Engineering*.

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