COMPUTER-AIDED DESIGN

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DESCRIPTION

*Computer-Aided Design* is a leading international journal that provides academia and industry with key papers on research and developments in the application of *computers* to *design*.

*Computer-Aided Design* invites papers reporting new research, as well as novel or particularly significant applications, within a wide range of topics, spanning all stages of design process from concept creation to manufacture and beyond. Examples of relevant topics include but are not limited to:

- Foundational theories, frameworks, methodologies, and standards
- Geometric and topological methods for shape and solid modeling
- Structural, material and physical modeling
- Virtual reality and prototyping methods
- Advanced support of manufacturing and downstream activities of product realization
- User interfaces, system interfaces and system interoperability
- Knowledge-intensive technologies for design
- Design databases, knowledge repositories, object libraries and retrieval
- Modeling and design of multi-scale objects and systems
- Specific applications and significant benchmarks of computer-aided design
- Emergent issues of advanced design support
- Uncertainty and imprecision in computer-aided design

Contributions are welcome from all disciplines, provided that they have a significant geometric, topological, spatial, or configuration design content, and present developments likely to be of interest to a broad spectrum of researchers, educators, and practitioners of *computer-aided design*.

Types of Papers:

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Application papers: will describe complex and pioneering applications of CAD concepts, methods and tools in practice, present significant results that extend the disciplinary knowledge and/or analyze the application in a way that is likely to stimulate and influence further research.
Survey papers: will critically analyze the current state of knowledge in a given field of CAD, summarize and organize recent research results in a novel way, derive new insights and add understanding to working in the field, and propose possible topics, orientations and approaches for future research and development.

Technical notes: will respond to material published in the journal or closely related topics, repair a flaw in the definition and approach or stimulate further thinking, or provide additional technical details on a CAD theory, technology, methodology, product or application.

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Application papers contain new analyses of CAD techniques in practice, presenting authoritative results in a way that is likely to stimulate and influence research.

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