



# COMPUTERS & CHEMICAL ENGINEERING

An International Journal of Computer Applications in Chemical Engineering

## AUTHOR INFORMATION PACK

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### DESCRIPTION

*Computers & Chemical Engineering* is primarily a journal of record for new developments in the application of **computing** and **systems technology** to **chemical engineering** problems. Several major areas of study are represented in the journal, including:

- Modeling, numerical analysis and simulation
- Mathematical programming (optimization)
- Cyberinfrastructure, informatics and intelligent systems
- Process and product synthesis/design
- Process dynamics, control and monitoring
- Abnormal events management and process safety
- Plant operations, integration, planning/scheduling and supply chain
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- Domain applications (molecular, biological, pharmaceutical, food, energy, and environmental systems engineering)

Also, general papers on **process systems engineering** are welcome as well as emerging new areas and topics not covered above.

Articles published cover different aspects of the application of process systems engineering to one or more of the general areas listed above, including new applications of established methods, comparisons of alternative methodologies, descriptions of state-of-the-art industrial applications and significant developments in computing targeted at training/education. Reports of software implementation must feature novel uses of state-of-the-art computing technologies. *Computers & Chemical Engineering* publishes full-length articles, perspective papers, journal reviews, short notes and letters to the [editor](#).

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## AUDIENCE

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Chemical Engineers and Engineers in the chemical process industries, especially those of a process systems orientation.

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### **Introduction**

*Computers & Chemical Engineering* is primarily a journal of record for new developments in the application of computing and systems technology to chemical engineering problems. Several major areas of study are represented in the journal, including:

Modeling, numerical analysis and simulation Mathematical programming (optimization) Cyberinfrastructure, informatics and intelligent systems Process and product synthesis/design Process dynamics, control and monitoring Abnormal events management and process safety Plant operations, integration, planning/scheduling and supply chain Enterprise-wide management and technology-driven policy making Domain applications (molecular, biological, pharmaceutical, food, energy, and environmental systems engineering)

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