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DESCRIPTION

This international journal covers the application of control theory, operations research, computer science and engineering principles to the solution of process control problems. In addition to the traditional chemical processing and manufacturing applications, the scope of process control problems involves a wide range of applications that includes energy processes, nano-technology, systems biology, bio-medical engineering, pharmaceutical processing technology, energy storage and conversion, smart grid, and data analytics among others.

Papers on the theory in these areas will also be accepted provided the theoretical contribution is aimed at the application and the development of process control techniques.

Topics covered include:

- Control applications
- Process monitoring
- Plant-wide control
- Process control systems
- Control techniques and algorithms
- Process modelling and simulation
- Design methods

Advanced design methods exclude well established and widely studied traditional design techniques such as PID tuning and its many variants. Applications in fields such as control of automotive engines, machinery and robotics are not deemed suitable unless a clear motivation for the relevance to process control is provided.

For more details on the International Federation of Automatic Control (IFAC), access their home page.

AUDIENCE

Engineers in the process industries (including bulk chemicals, oil refining, pulp and paper, petro-chemicals, pharmaceuticals, biochemicals, food processing, minerals processing, agrochemicals and speciality chemicals); academics specialising in the control aspects of process engineering; regulatory bodies; government laboratories.

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The Journal of Process Control publishes two types of papers: research papers, and review and tutorial papers. Research papers present high-quality original research results in the areas covered by the journal. Submission of manuscripts providing original results of industrial applications in the field of process control are strongly encouraged. It should be noted that the nominal length of research papers submitted to the Journal of Process Control is at most 7,500 words plus references. Each normal-sized figure or table contributes about 150 words to the word count. Any submitted paper significantly exceeding the nominal length should be accompanied by a written justification. Review and tutorial papers present either an introduction to a theoretical subject of high pedagogical value in case of tutorial papers or a concise summary of the research in a specific field of process control. There is no length restriction for review and tutorial papers.

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