INTERNATIONAL JOURNAL OF CONTROL
Call for Papers
Special Issue on the Use of Computer Algebra Systems for Computer Aided Control System Design
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Recently there has been an interest in the application of computer algebra to control system analysis and design. A collection of tools and packages based on Computer Algebra Systems (CAS), such as Mathematica, Maple, MuPad, Macsyma, etc., have been developed for the solution of many control problems and are used on campus networks, since they have a profound impact on teaching and research. CASs have a major impact to areas such as robotics, computer aided geometric design, mechanics, flow dynamics, thermodynamics and combustion, audio signal processing, etc.

This special issue aims not at collecting papers on symbolic computations, but rather to address, at least to some extent, a coherent vision of the role of symbolic computations in control system design. Potential articles have to be written in such a way that readers, who are not experts in symbolic methods, will be able to learn about these techniques. Papers that provide tutorial material and illustrative applications are desirable. For all papers, the authors have to provide introductory tutorial material as appropriate to control engineers and non-experts, including definitions of technical terms that may not be well known to readers. Some of the areas of interest concern the use of CAS in:

* Linear Systems
* Groebner bases and related methods
* Non-linear Systems
* Uncertain Systems
* Signal Processing
* Modeling and Simulation
* Education
* Robotics
* Applications in Aerospace Control, Process Control, Automotive Control, etc.

**Submission Details:** Potential authors are expected to submit a full paper in pdf format (according to the format settings of IJC) to any one of the guest editors according to the timetable given below. All papers submitted will be subject to peer review in accordance with the standard review process of the International Journal of Control. Electronic submissions are strongly encouraged. In the case where submissions are made as hard copies, four copies are required.

The **timetable** for the special issue is as follows:
- Paper Submission Deadline July 1, 2005
- Review Deadline September 1, 2005