

Paper Submission

Authors are encouraged to submit high-quality, original work that has neither appeared in, nor is under consideration by, other journals.

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Important Dates:

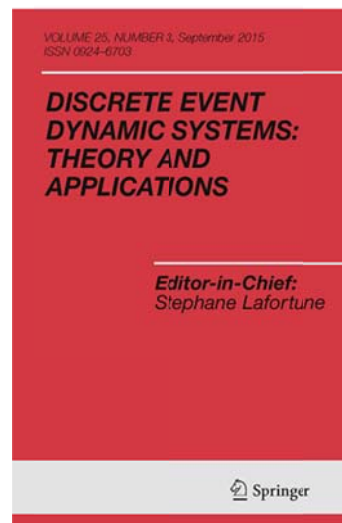
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Discrete Event Dynamic Systems

~Special Issue~

Formal Methods in Control

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In recent years we have witnessed an increase in the use of techniques originating in the area of formal methods to solve control problems. Similarly, the idea of synthesizing a controller that enforces the desired specifications is becoming an alternative to the verification paradigm prevalent in the formal methods area. There is now a growing body of literature at the intersection of these two disciplines, formal methods and control theory, and the purpose of this special issue is to present the latest developments in this area.

This special issue solicits submissions of high-quality papers reporting original works in both theoretical and system research at the intersection of formal methods and control. Topics of interests include:

- Abstraction-based control
- Verification and synthesis for continuous systems
- Verification and synthesis for timed-automata
- Reactive synthesis
- Connections between supervisory control of discrete event systems and reactive synthesis
- Temporal logic techniques for continuous and timed systems
- Compositional approaches to synthesis and contract-based design
- Synthesis with partial and imperfect information
- Learning, adaptation in correct-by-construction design
- Algorithms and tools for verification and synthesis of continuous and timed systems
- Complexity and impossibility results for verification and synthesis of continuous and timed systems
- Applications in automotive, avionics, energy, mobile robotics, medical devices, manufacturing, systems biology, transportation, security, privacy and other areas