Special Session on
“Discrete-event based graphical formalisms for control systems”

Organized by
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Call for Papers
Discrete control systems have many applications in the industrial automation and manufacturing sectors. In the context of discrete-event system modeling, graphical formalisms allow the creation of intuitive models with precise syntax and semantics. They should be supported by tools that allow covering all development stages.
This session aims to collect papers describing original research on the application of theoretical aspects of graphical formalisms in the area of discrete-event based control systems development addressing one or more of the listed topics. Unlisted, but closely related sub-topics are also acceptable.

- Tools and applications
- System modeling, simulation, animation, code generation and execution
- UML, SysML, Petri nets, Grafcet, SFC, IEC61499, and others
- Model-driven development
- Prototyping, animation, code generation and execution
- Supervisory control
- Relationships between graphical formalisms, and other approaches
- Design automation and computer tools
- Standardization
- Practical applications and industrial case studies.