

Call for papers : WODES 2018 Special Session

Title: (Max,+)-algebra and quantitative issues in discrete event systems

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Description and aim of the session:

The theory of discrete-event systems has started with purely logical models, where only ordering of discrete-event plays role, but not the time related issues. Very soon, (max,+)-algebra has been used as linear system theory for a class of timed discrete-event systems that have been in the past limited to timed event graphs, but can now be applied to larger class of Petri nets such as time Petri nets, timed Petri nets and weighted automata.

This new linear system theory has been applied to a wide variety of domains, such as: transportation systems, manufacturing systems, performance guarantees in network calculus, high throughput screening in pharmaceutical industry, speech recognition based on (max,+) automata, special aspects in robotics (legged locomotion), crop rotation in agriculture etc.

The aim of this section is to discuss the recent advances in the control theory of (max,+)-linear systems, Recently emerging topics such as applications in diagnosis and identification of timed discrete-event systems are particularly welcome. The session is also opened to closely related topics such as performance analysis in networks.

- Submission website: <http://ifac.papercept.net/conferences/>
- Conference website: <http://wodes2018.unisa.it/>