

CALL FOR PAPERS

NONLINEAR ANALYSIS: HYBRID SYSTEMS

SPECIAL ISSUE: EVENT-TRIGGERED AND SELF-TRIGGERED CONTROL

The rise of networked cyber-physical systems challenges the way controllers are implemented and communicate. Limited communication and/or computation capabilities can no longer be ignored, and control designs tools that can balance the available resources with the closed-loop system performances become essential. In this context, event-triggered and self-triggered control are extremely promising paradigms, which abandon classical time-triggered periodic computation and communication. Event-triggered and self-triggered control consist in smartly generating transmissions between the (distributed) plant or agents and its controller(s) according to the system(s) needs to achieve desirable stability and performance properties. Although significant advances have been made over the last decade, event-triggered and self-triggered control keep raising numerous fascinating research questions and applications challenges, which are gaining the attention of the control community and beyond.

The objective of this special issue is to collect original, top-level contributions on the topic on event-triggered and self-triggered control. The scope of this special issue is broad ranging from fundamental questions to real-life applications of event-triggered and self-triggered control including, but not limited to, stabilization, coordination, regulation, estimation, and optimization.

- The review process will start at time of manuscript submission.
- The accepted papers will be bundled in a virtual special issue on the journal website. Their printed versions will be published in regular issues.

Submission window: March 1, 2023 — September 1, 2023

Submission site: www.editorialmanager.com/nahs/

Special issue site: www.sciencedirect.com/journal/nonlinear-analysis-hybrid-systems/about/call-for-papers#event-triggered-and-self-triggered-control

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