

## Stability analysis of aperiodic control systems

- Imperfections in modern control systems: network delays, uncertain sampling periods, packet-drop.
- Problem: Given a plant, controller, and an aperiodic sampler, prove that the system is stable.
- This seminar focuses on:
  - Studying and comparing methods in literature that analyses stability of aperiodic sampled-data systems.
- 2. Analyzing stability in the presence of scheduling protocols using reachability analysis.
- 3. Identifying open practical and theoretical challenges in this field

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