

# **Commentary:** On-board Timeline Validation and Repair: A Feasibility Study

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# The Main Points

- “Timeline Validation, Control, and Repair”:
  - Repairs:
    - plan failure isolation
    - over-subscription
    - under-subscription
  - Detailed simulation model of continuous quantities

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    - plan failure isolation
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  - Detailed simulation model of continuous quantities
- “Methodological constraints”
  - Plan fragments – task decompositions
  - Ordering constraints
  - Timing constraints – execution windows, or state constraints.
  - Mutex constraints – *not* resource constraints

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The work described in this paper represents some movement in reconciling the perspectives and techniques of those who agree with the above with those who do not.

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- Does the *control* function of TVCR actually control, or just monitor?
- What kinds of domains will this be useful for?
- Where is the boundary between plan repair and planning?
- Is there any better argument for trusted autonomy than “it hasn't broken anything, yet?”