

A Survey of Probabilistic Timing Analysis Techniques for Real-Time Systems

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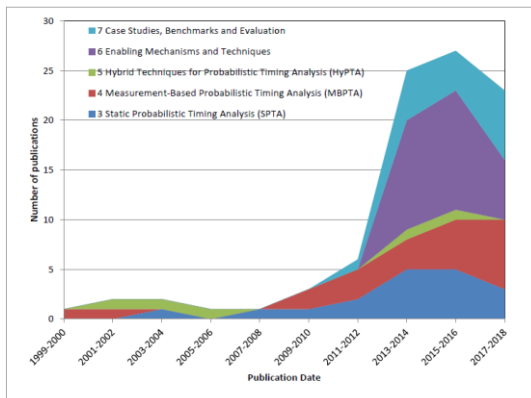
A Survey of Probabilistic Schedulability Analysis Techniques for Real-Time Systems

by Robert Davis and Liliana Cucu-Grosjean
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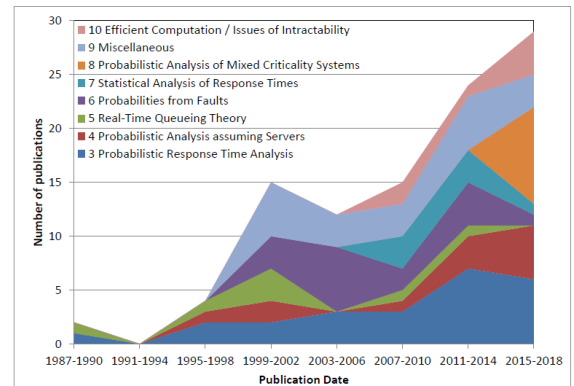
Abstract: These two comprehensive surveys cover the last two decades of research into probabilistic real-time systems. Each survey reviews and importantly critiques the key results in the field, provides a taxonomy of the different methods used, and a classification of existing research. The surveys discuss, in detail, fundamental concepts and methods, before providing an extensive review of over 190 papers covering the main subject areas as well as research on supporting techniques. Each concludes by identifying open issues, key challenges and possible directions for future research.

“A must read for researchers interested in probabilistic real-time systems”

Timing Analysis



Classification of techniques



Schedulability analysis

Robert I. Davis, Liliana Cucu-Grosjean, [A Survey of Probabilistic Timing Analysis Techniques for Real-Time Systems](https://ojs.dagstuhl.de/index.php/lites/article/view/LITES-v006-i001-a003). Leibniz Transactions on Embedded Systems, (LITES). v. 6, n. 1, p. 03:1-03:60, May 2019. ISSN 2199-2002. Available at: <https://ojs.dagstuhl.de/index.php/lites/article/view/LITES-v006-i001-a003>



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