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Duration Calculus: A Formal Approach to Real-Time Systems (Monographs in Theoretical Computer Science. An EATCS Series)

Chaochen Zhou, Michael Hansen

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A comprehensive introduction to interval logic and duration calculus for modelling, analysing and verifying real-time systems. The Duration Calculus (DC) represents a logical approach to formal design of real-time systems. In DC real numbers are used to model *time* and Boolean-valued (i.e. {0,1}-valued) functions over time to model *states* of real-time systems. The *duration* of a state in a time interval is the accumulated presence time of the state in the interval. DC extends *interval logic* to a calculus to specify and reason about properties of state durations. The text covers theory (completeness, decidability, undecidability, model-checking), results, as well as case studies (Deadline Driven Scheduler).

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