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Real-time refinement in Manna and Pnueli’s temporal logic. (English) Zbl 0857.68073

Summary: A refinement calculus for the development of real-time systems is presented. The calculus is based upon a wide-spectrum language called TAM (the Temporal Agent Model), within which both functional and timing properties can be expressed in either abstract or concrete terms. A specification oriented semantics is given for the language. Program development is considered as a refinement process i.e. the calculation of a structured program from an unstructured specification. An example program is developed.

MSC: 68Q55 Semantics in the theory of computing

Keywords: temporal agent model; refinement calculus; real-time systems; TAM

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References:

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