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A CSP model with flexible parallel termination semantics. (English) Zbl 1192.68429

Summary: In the original failure-divergence semantic model for Communicating Sequential Processes (CSP), the incomplete treatment of successful process termination, and in particular parallel termination, permitted unnatural processes to be defined. In response to these problems, a number of different solutions have been proposed by various authors since the original failure-divergence model was developed by Hoare, Brookes and Roscoe. This paper presents an alternative solution to this problem, which is both closer to the original semantic model and provides greater flexibility over the type of parallel termination semantics available in CSP.

MSC:
68Q55 Semantics in the theory of computing

Keywords:
concurrency; CSP; termination

Software:
FDR2

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References:


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