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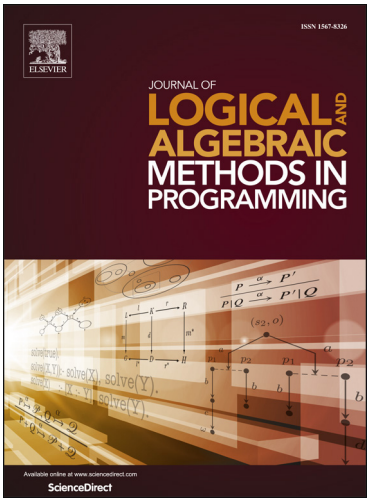

Convergence: Integrating Termination and Abort-Freedom

Nafi Diallo, Wided Ghardallou, Jules Desharnais, Ali Mili

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Highlights

- We define convergence as the conjunction of termination and abort-freedom.
- We derive a general theorem that provides a necessary condition of convergence.
- We discuss heuristics that enable us to ensure that our necessary condition is also sufficient.
- We show how to specialize the theorem to any abort-freedom condition of interest.
- For iterative programs, we use invariant relations to this effect.

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