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Nagging: A distributed, adversarial search-pruning technique applied to first-order inference. (English) [Zbl 0884.68116](#)

J. Autom. Reasoning 19, No. 3, 347-376 (1997).

Summary: This article introduces a parallel search-pruning technique called nagging. Nagging is sufficiently general to be effective in a number of domains; here we focus on an implementation for first-order theorem proving, a domain both responsive to a very simple nagging model and amenable to many refinements of this model. Nagging's scalability and intrinsic fault tolerance make it particularly suitable for application in commonly available, low-bandwidth, high-latency distributed environments. We present several nagging models of increasing sophistication, demonstrate their effectiveness empirically, and compare nagging with related work in parallel search.

MSC:

68T15 Theorem proving (deduction, resolution, etc.) (MSC2010)

Cited in **2** Documents

Keywords:

[search-pruning technique](#); [nagging](#)

Software:

[TPTP](#); [SETHEO](#); [PARTHEO](#)

Full Text: [DOI](#)