

Persistent graphs

Source: <http://coding.derkeiler.com/Archive/Prolog/comp.lang.prolog/2004-10/0067.html>

projectshave_at_yahoo.com

Date: 10/05/04

Date: 5 Oct 2004 14:44:56 -0700

I'd like to do some graph rewriting in Prolog, which will involve lots of addition/deletion of nodes and edges. If a rewrite "fails", it must backtrack to the original graph and attempt a different rewrite. A persistent, or functional, graph would work best in this case. Is there a library for persistent graphs available for Prolog somewhere? I'm hoping to avoid the assert/retract global space.

I didn't find any pointers in a google search of this group. Has anyone attempted to implement Martin Erwig's paper "Inductive Graphs and Functional Graph Algorithms". Otherwise, maybe some kind soul has ported the Mercury graph library to ISO Prolog and would be willing to post it.

Thanks.