Australasian Joint Conference on Artificial Intelligence, Dunedin, New Zealand, 1 - 6 December 2013

Supraclassical Consequence Relations Tolerating Rare Counterexamples

Willem Labuschagne 1, Johannes Heidema 2, and Katarina Britz 3

- 1 University of Otago, Dunedin, New Zealand, willem@cs.otago.ac.nz,
- 2 University of South Africa, Pretoria, South Africa,
- 3 Centre for AI Research, CSIR Meraka Institute, Pretoria

University of KwaZulu-Natal, Durban, South Africa

Abstract

We explore a family of supraclassical consequence relations obtained by varying the criteria according to which counterexamples to classical entailment may be deemed tolerable. This provides a different perspective on the rational consequence relations of nonmonotonic logic, as well as introducing new kinds of entailment with a diversity of potential contextual applications.