

# Extending Unary Exchangeability Results to Non-Unary Languages

Tahel Ronel

March 2015

## **Abstract**

There is a significant number of successful results in Unary Inductive Logic that originate from the unary version of the widely-accepted Principle of Constant Exchangeability (Ex). In the unary context, Ex can be formulated using atoms, the basic building blocks of the language, as invariance under signatures of atoms. This formulation enables, for instance, to show that the Principle of Instantial Relevance (‘having witnessed something in the past should enhance our belief the we might see it again in future’), follows as a direct consequence of Unary Ex. In contrast, polyadic generalisations of these concepts have thus far proved elusive. In this talk, we present methods for extending such ideas beyond the unary, and some of the new theory that follows.