

Abstract Details

Title: Formal Specification Language

Authors: Amal A. Mirghani, Nahid A. Ali and Abdelrasoul Y. Ibrahim

Abstract: The specifications studied so far are adequate for specifying programs that take an input and map it onto an output. However, they inadequate to represent programs whose response depends not only on their input, but on their internal state. So for specifications should have two key attributes: formality and abstraction. Axiomatic representation represents the relation of a specification by means of an inductive notation to achieve simplicity, formality, and abstraction. This notation includes Axioms and Rules. This paper represents Alneelain specification language that checks the syntax of Abstract Data Types specification based on Axiomatic representation.

Keywords: Alneelain Specification Language, Axiomatic Specification, Abstract Data Types.