

We present a new minimalistic conceptual model for hierarchical data called AC-model. Syntax part of this model is based upon the regular tree grammar theory. AC-model is composed of two parts – Archetype model and Constraint model. A-model is intended to model arbitrary regular tree grammar, C-model adds a first order logic constraints. We also prove that validity problem for ACmodel is NP-hard and conformance problem is undecidable. Along with this thesis C-model based validator of XML documents' semantics is presented.