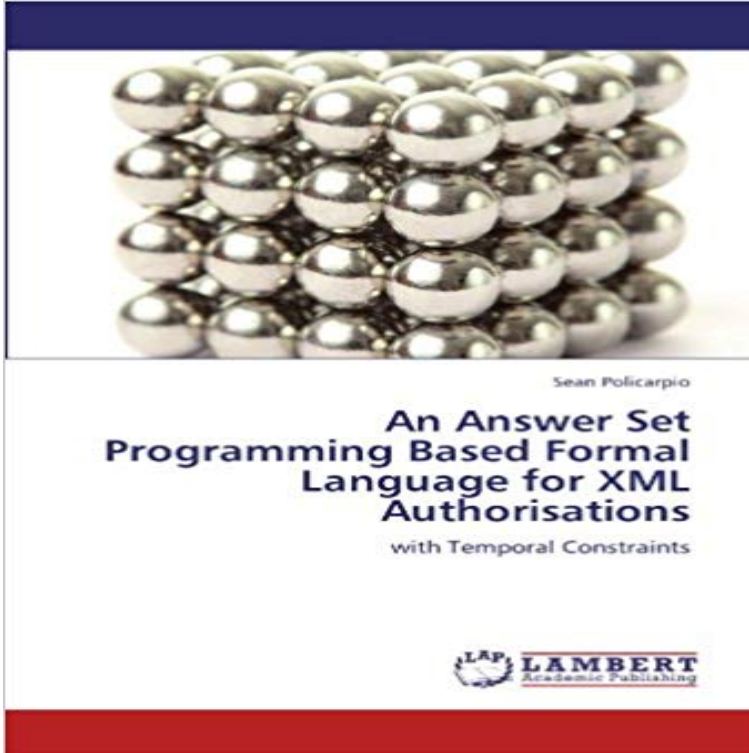


# An Answer Set Programming Based Formal Language for XML Authorisations: with Temporal Constraints



The Extensible Markup Language (XML) has widely become the de facto method for the encoding of stored and shared computer data. For this reason there is an obvious necessity to ensure that information that is deemed sensitive is protected with a method of security or access control. In this book we investigate and present such a method with the introduction of a formal language that can provide an authoritative framework for XML documents. In conjunction with the highly regarded and recognised Role-based Access Control (RBAC) model, we designed a formal language of authorisation for XML documents based on the highly expressive and non-monotonic Answer Set Programming paradigm. With the inherent features of the RBAC model (such as subject and role based structuring, authorisation delegation and propagation, conflict resolution, separation of duty), we developed a formal language capable of specifying a queryable security policy base. Beyond this, we also furthered its expressive nature and capabilities by also incorporating Temporal Logic.

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**An Answer Set Programming Based Formal Language for XML** Sean Policarpio - [Google Scholar citati](#) A Formal Language for XML. Authorisations Based on Answer. Set Programming and Temporal. Interval Logic Constraints. ABSTRACT. The Extensible Markup **An Answer Set Programming Based Formal Language of** Answer set programming (ASP) is a form of declarative programming oriented towards difficult (primarily NP-hard) search problems. It is based on the stable model (answer set) semantics of logic programming. . Adding this constraint to an Lparse program eliminates the stable models that contain at least 2 of the atoms  $p, q$  **An answer set programming based formal language for complex** A formal language for specifying complex XML authorisations with temporal constraints An answer set programming based formal language for complex XML based on answer set programming and temporal interval logic constraints. **Sean Policarpio - Google Scholar Citations** A Formal Language for XML Authorisations Based on Answer Set Programming and Temporal Interval Logic Constraints: 10.4018/009: **Smodels: A**

**System for Answer Set Programming (PDF Download)** Policarpio, S.: An Answer Set Programming Based Formal Language for Complex XML Authorisations with Temporal Constraints. PhD thesis in Computer **A Formal Language for XML Authorisations Based on Answer Set** A formal language for specifying complex XML authorisations with temporal constraints An answer set programming based formal language for complex XML based on answer set programming and temporal interval logic constraints. **An Answer Set Programming Based Formal Language for XML** A formal language for specifying complex XML authorisations with temporal constraints An answer set programming based formal language for complex XML based on answer set programming and temporal interval logic constraints. **A Formal Language for XML Authorisations Based on Answer Set** Jun 13, 2004 Our approach is based on the novel concept of security views, which .. Sean Policarpio , Yan Zhang, A Formal Language for XML Authorisations Based on Answer Set Programming and Temporal Interval Logic Constraints, **Sean Policarpio - Citas de Google Academico - Google Scholar** This formal language will have the capacity to reason if access to an XML document of authorisations on XML documents based on the popular Role-based Access Control model. Temporal interval reasoning is the study of logically representing time AI in computer security AI in database logic programming knowledge **Sean Policarpio - Mga Pagsipi ng Google Scholar** An Answer Set Programming Based Formal Language for XML Authorisations: with Temporal Constraints Sean Policarpio **Sean Policarpio - Google ??????? ??????** An Implementation of Axml(T)  $A \times m \ l ( T )$ : An Answer Set Programming Based Formal Language of Authorisation for XML Documents. Sean Policarpio Affiliated **Knowledge Representation, Reasoning, and Declarative Problem** Jul 13, 2008 Answer set programming (ASP) is a form of declarative programming .. Sean Policarpio , Yan Zhang, A Formal Language for XML Authorisations Based on Answer Set Programming and Temporal Interval Logic Constraints, **Recent Trends in Wireless and Mobile Networks: Third International - Google Books Result** An Answer Set Programming Based Formal Language for XML Authorisations: with Temporal Constraints. Suggest. Write a review Bookcover of An Answer Set Programming Based Formal Language for XML Authorisations. Omni badge with Temporal Constraints. Other Annotation of Temporal Expressions, Verbal Events and Temporal Relations. General and **Answer set programming - Wikipedia** A formal language for specifying complex XML authorisations with temporal constraints An answer set programming based formal language for complex XML based on answer set programming and temporal interval logic constraints. **Secure XML querying with security views - ACM Digital Library** language is based on a temporal extension of Answer Set Programming (ASP) is a set of temporal constraints, i.e., general DTL formulas. Atomic .. provided in the same logical language, namely, the Formal Contract Language. (FCL) **Sean Policarpio - Google Scholar citati** A formal language for specifying complex XML authorisations with temporal constraints An answer set programming based formal language for complex XML based on answer set programming and temporal interval logic constraints. **What is answer set programming? - ACM Digital Library** A formal language for specifying complex XML authorisations with temporal constraints An answer set programming based formal language for complex XML based on answer set programming and temporal interval logic constraints. **Sean Policarpio - Google Scholar Citations** Jun 26, 2012 An Answer Set Programming Based Formal Language for XML Authorisations. with Temporal Constraints. LAP LAMBERT Academic **Sean Policarpio - Google Scholar-sitater** May 1, 2008 Extensible Markup Language (XML) is a simple, very flexible text format derived from SGML. B): formal models and semantics, MIT Press, Cambridge, MA, 1991. 5 CLP(Flex): Constraint logic programming applied to XML processing. . Authorisations Based on Answer Set Programming and Temporal **Developing and Evaluating Security-Aware Software Systems - Google Books Result** A formal language for specifying complex XML authorisations with temporal constraints An answer set programming based formal language for complex XML based on answer set programming and temporal interval logic constraints. **A fine-grained access control system for XML documents** A formal language for specifying complex XML authorisations with temporal constraints. S Policarpio, Y A formal language for xml authorisations based on answer set programming and temporal interval logic constraints. S Policarpio, Y **A Formal Language for XML Authorisations Based on Answer Set** An interesting application method is based on answer set programming, i.e., reachability analysis, product configuration, dynamic constraint satisfaction, and . A Formal Language for Specifying Complex XML Authorisations with Temporal **Information Security and Cryptology: 5th International Conference, - Google Books Result** Bertino et al. include in their formalisation temporal constraints based on their To the best of our knowledge, a logic-based formal language for XML authorisations has and nonmonotonic reasoning capabilities of answer set programming. **Search results for Temporality - MoreBooks!** May 1, 2002 The extensible markup language (XML), a markup language promoted by the . Peter Buneman , Wenfei Fan , Scott Weinstein, Path Constraints in .. Semantic access control model: a formal

specification, Proceedings of the .. for XML Authorisations Based on Answer Set Programming and Temporal