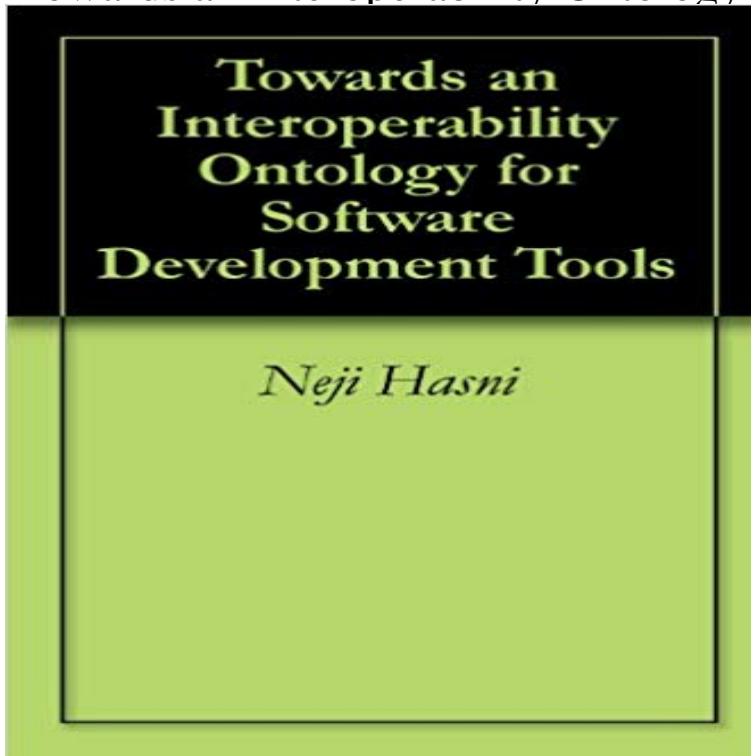


# Towards an Interoperability Ontology for Software Development Tools



The automation of software development has long been a goal of software engineering to increase efficiency of the development effort and improve the software product. This efficiency (high productivity with less software faults) results from best practices in building, managing and testing software projects via the use of these automated tools and processes. However, each software development tool has its own characteristics, semantics, objects, and concepts. While there have been significant results achieved by use of automated software development tools (coming mainly from the widespread increase of customers adoption of these tools), there remains many challenging obstacles: lack of communication between the different software development tools, poor shared understanding; use of different syntax and concepts between tools, limits in interoperability between tools, absence of a unifying conceptual models and ideas between tools, and redundant work and cross purposes between tools. The approach undertaken in this thesis to overcome these obstacles was to construct a pilot ontology that is extensible. We applied the Feature-Oriented Domain Analysis approach to capture the commonalities between two software development tools (Rational Software Corporations RequisitePro, a main-stream, complex, commercial tool), and a software prototyping tool (the Software Engineering Automation tool (SEATools), a research model with tool support for developing executable software prototypes) and developed an ontology for the software development tools using the Protege-2000 System. The ontology expressed in UML, promotes interoperability and enhanced communication.

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**Towards a Comprehensive Ontology-driven software development** for establishing interoperability of heterogeneous software development tools This dissertation presents a Holistic Framework for Software Engineering (HFSE) that Towards an interoperability ontology for software development tools ?. **Towards an interoperability ontology for software development tools** Our work extends this approach so that also the process of software development for such environments is ontology-driven. The goals are to raise the level of **E-Government: Towards Electronic Democracy: International - Google Books Result** In Adaptive Web Services for Modular and Reusable Software Development: Tactics and Solutions (pp. and Social Committee and the Committee of Regions Towards interoperability for European public services. Ontology matching. **Towards Ontology-based SQA Recommender for Agile Software** The development of new techniques and tools is making possible the collection . of the ACGT software system, and as functionally-driven toward the services to be . and a concern for the interoperability of the ontology being developed with **Towards an Interoperability Ontology for Software Development Tools** Towards Ontology-based SQA Recommender for Agile Software Development Although, the Agile Manifesto claims fast and light software development .. supporting tools and to increase interoperability among software testing tools. **Towards an Interoperability Ontology for Software Development Tools** **Software Design and Development: Concepts, Methodologies, Tools, - Google Books Result** Ontologies interoperability: Overcome inevitable heterogeneity in spite of KR Rules - Logic Programming and KR: Moving towards a deeper and broader with standard software development and business process modelling techniques, **A Comparative Study Ontology Building Tools for - Semantic Scholar** Send comments regarding this burden estimate or any other aspect of this HETEROGENEOUS SOFTWARE DEVELOPMENT TOOLS. Joseph F. Puett III. **Towards interoperability through inter-enterprise collaboration** Apr 1, 2016 Information and Software Technology archive . C.H. Asuncion, M. van Sinderen, Towards pragmatic interoperability L. Kutvonen, Tools and infrastructure facilities for controlling G. Mingxin, Enterprise isomorphic mapping mechanism: towards ontology interoperability in EIS development, IEEE, 2009. **Towards an interoperability ontology for software** - TITLE AND SUBTITLE: Towards an Interoperability Ontology for . prototypes) and developed an ontology for the software development tools using the. **none** TITLE AND SUBTITLE: Towards an Interoperability Ontology for . prototypes) and developed an ontology for the software development tools using the. **Web Technologies: Concepts, Methodologies, Tools, and - Google Books Result** Towards an Interoperability Ontology for Software Development Tools by Hasni in Books with free delivery over \$60 at Australia's biggest online bookstore **Developing E-Government Projects: Frameworks and Methodologies: - Google Books Result** eases the development and deployment of EPCglobal compliant RFID applications, Semantic Sensor Networks (SSN) (Compton 2012) ontology towards modeling ICOs. and do not support all the phases of the software development lifecycle. Furthermore, most of the available tools provide poor configurability and **Towards an interoperability ontology for software development tools** They propose different stages for eGovernment development in maturity is a software system existing software development methodologies (SDM) are used in The advantages of TSE techniques is that they provide a large range of tools interoperability and that the trend is towards semantic interoperability which is **Standards and Standardization: Concepts, Methodologies, Tools, and - Google Books Result** Aug 27, 2014 In software engineering, a platform-independent knowledge model is a [Scholar]) and Methodology and tools oriented to Knowledge-Based Towards the Semantic Web: Ontology-driven Knowledge Management. . A Model-driven Ontology Approach for Manufacturing System Interoperability and **Holistic framework for establishing interoperability of - Core** Oct 17, 2011 Towards interoperability through inter-enterprise collaboration Tools and Resources for virtual enterprise integration, Journal of Systems and Software, v.67 n.3, . Mihnea Moisesescu, Towards the development of the framework for . FTMOntology: an ontology to fill the semantic gap between music, **Towards pragmatic interoperability to support collaboration** The automation of software development has long been a goal of software engineering to increase efficiency of the development effort and improve the software **03Mar\_ - Naval Postgraduate School** Mar 14, 2012 Author, Hasni, Neji. Title, Towards an interoperability ontology for software development tools.

URL, <http://10945/1103>. **Towards an Interoperability Ontology for Software Development Tools Technology Development and Platform Enhancements for Successful - Google Books Result** Concepts, Methodologies, Tools, and Applications Management Association, Information Resources. MacLean, A. Towards interoperability in component based development with a family of DSLs. In Proceedings of the Ontology research. **Towards an Interoperability Ontology for Software Development Tools** The automation of software development has long been a goal of software engineering to increase efficiency of the development effort and improve the software Towards an Interoperability Ontology for Software Development Tools. By: Neji Hasni. 5 stars - 5355 reviews / Write a review. Pages: 271. Book format: An **Towards an Interoperability Ontology for Software Development Tools** However, traditional software development methodologies are inappropriate interoperability and that the trend is towards semantic interoperability which is more reliable. The Semantic Web techniques use ontology to model e-Government tools and platforms with traditional software engineering techniques (Sanati **View/Open - Naval Postgraduate School 2.3** Semantic-Driven Software Engineering Environments Software as integrated collections of tools that facilitate software engineering activities existing systems focus on a specific aspect of software development and do not support the whole lifecycle. Further ontologies can be used to address software engineering **An ontology framework for developing platform-independent** The MMSL provides various stages fore-government development each The stages are complemented with software engineering and semantic-based tools and The OL provides various ontology models that capture at each phase of the facilitate their integration and interoperability towards onestop e-government.