Implementing Domain Specific Languages With Xtext And Xtend By Bettini Lorenzo 2013 Paperback

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Implementing Domain Specific Languages With

JTS: Tools for Implementing Domain-Specific Languages
JTS: Tools for Implementing Domain-Specific Languages Don Batory, Bernie Lofaso, and Yannis Smaragdakis Department of Computer Sciences The University of Texas at Austin Austin, Texas 78712 {batory, bernie, smaragd}@csutexasedu Abstract1 The Jakarta Tool Suite (JTS) aims to reduce substantially the cost of generator development by providing

Implementing domain-specific languages for heterogeneous ...
• Implementing domain-specific languages for heterogeneous parallel computing HyoukJoong Lee, Kevin J Brown, Arvind K Sujeeth, Hassan Chafi, Tiark Rompf, Martin Odersky, Kunle Olukotun IEEE Micro: Special Issue on CPU, GPU, and Hybrid Computing, September/October 2011 18/06/2012 13

Domain Specific Modelling Language Implementations in Tools
Domain-Specific Modeling Language and generator's working methods Development of Domain Specific Modeling simplifies and speeds up the programming into many folds DSM Tools are very effective in developing models and in code generations This paper explains about DSML concepts

and DSML implementation among the tools

IMPLEMENTING DOMAIN-SPECIFIC L HETEROGENEOUS P …

implementing domain-specific languages for heterogeneous parallel computing domain-specific languages offer a solution to the performance and the productivity issues in heterogeneous computing systemsthe delite compiler framework simplifies the process of building embedded parallel dslsdsl developers can implement domain-specific operations by extending the dsl

Techniques for implementing embedded domain specific …

Techniques for implementing embedded domain specific languages in dynamic languages Lejdfors, Calle 2006 Link to publication Citation for published version (APA): Lejdfors, C (2006) Techniques for implementing embedded domain specific languages in dynamic languages Computer Science, Lund University General rights

Domain-Specific Languages for Composable Editor Plugins

Domain-Specific Languages for Composable Editor Plugins LDTA 2009, York, UK Lennart Kats (me), Delft University of Technology March 19, 2009 2 The Framework is the Language 3 The IDE is the Language 4 Implementing IDEs: The Two Faces of Eclipse Eclipse platform: • Cross-platform, open-source • People have it • People use it

UDM: An Infrastructure for Implementing Domain-Specific …

UDM: An Infrastructure for Implementing Domain-Specific Modeling Languages Endre Magyari, Arpad Bakay, Andras Lang, Tamas Paka, Attila Vizhanyo, Aditya Agarwal, and Gabor Karsai Institute for Software-Integrated Systems Vanderbilt University Nashville, TN 37235, USA Abstract Domain-specific modeling languages amortize the cost of the

Everything Old Is New Again: Quoted Domain-Specific …

Keywords domain-specific language, DSL, EDSL, QDSL, em-bedded language, quotation, normalisation, subformula principle 1 Introduction Implementing domain-specific languages (DSLs) via quotation is one of the oldest ideas in computing, going back at least to Mc-Carthy's Lisp, which was introduced in 1960 and had macros as early as 1963

Aether: An Embedded Domain Specific Sampling Language for …

Aether: An Embedded Domain Specific Sampling Language for Monte Carlo Rendering • 99:3 contributions f (xi) is weighted according to I ⇕ 1 N XN i Wi(xi) f (xi) pj(xi), (2) where the combination weight heuristic Wi(xi) is a function of all the probability densitiesp1(xi),p2(xi),,pM (xi), not just the density of the sampler that actually drew xi In a di⃞erent vein, Markov Chain Monte

Supporting Variability with Late Semantic Adaptations of …

able for domain speci c-modeling languages Also, existing approaches to implementing domain-speci c modeling lan-guages do not support semantic adaptations, where the ap-plication basically rede nes speci c parts of the language semantics We propose a new approach for the implementa-tion of domain-speci c modeling languages that uses meta-

Debugging with Domain-Specific Events via Macros

Domain-specific languages (DSLs) are designed to improve ease of use and productivity [Mernik et al2005;Ward1994] by offering expressive, domain-specific notation and abstrac-tions [van Deursen et al2000] Although they are specific to a domain, many DSLs are still recognizably program-ming languages, and a good debugging experience is indis-

A Domain-Specific Language for Discrete Mathematics

11 Domain-Specific Languages A programming language can be defined as a language that is discrete mathematics by implementing it as a Preprocessed Domain Specific Language Apart from a library of modules for various concepts of discrete mathematics, the DSL

OptiML: An Implicitly Parallel Domain-Specific Language for ML

(domain decomposition) Automatically synchronize parallel iteration over domain-specific data structures Exploit structured communication patterns (nodes in a graph may only access neighbors, etc) Defer as many implementation-specific details to compiler and runtime as possible OptiML does not have to be conservative

Designing extensible, domain-specific languages for …

Designing extensible, domain-specific languages for mathematical diagrams Katherine Ye with Keenan Crane Jonathan Aldrich Josh Sunshine Source: "An Algorithm to Generate Impossible Art?", Danny Tarlow 3 Off the Beaten Track '17

Implementing a domain- specific multi-result supercompiler …

Implementing a domain-specific multi-result supercompiler by means of the MRSC toolkit Keldysh Institute preprints, 2012, No 24, 20 p URL: Another line of development is domain-speci c supercompilation for domain-speci c languages, and, as has …

DOMAIN-SPECIFIC MODELING ENVIRONMENT BASED ON …

Domain-Specific Modeling Languages (DSML) play a key role in model-driven development For implementing DSML, there are two fundamental approaches: the heavyweight one, creating a new

EMBEDDED DOMAIN-SPECIFIC LANGUAGES IN PROLOG

A domain-specific language is a language tailored to a specific application domain and precisely capture the domain's semantics It can be implemented by the traditional or by the embedded approach

CS442: High Productivity and Performance with Domain …

domain specific language elements that capture domain knowledge and computer scientists who can implement these DSLs using a new DSL framework in Scala In the first half of the class we will focus on understanding the infrastructure for implementing DSLs in …

Kunle Olukotun - Stanford University

Parallelism Lab (PPL), which seeks to proliferate the use of heterogeneous parallelism in all application areas using Domain Specific Languages (DSLs) ACADEMIC APPOINTMENTS • IMPLEMENTING DOMAIN-SPECIFIC LANGUAGES FOR HETEROGENEOUS PARALLEL COMPUTINGIEEE MICRO

Quantitative Productivity Analysis of a Domain-Specific …

domain, and (3) enforcing domain-specific development constraints Many documented benefits of MDE are qualitative, eg, use of domain-specific entities and associations that are familiar to domain experts, and visual programming interfaces where developers can manipulate icons representing domain-specific entities to simplify development