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1 Effective Development of DSLs and Generators

How can you develop domain-specific languages (DSL), generators and product families efficiently and at the same time provide for functional variations as well as for different platforms. Rüdiger Schilling will explain possibilities on a half-day event including practical exercises at the Institute for Business Information Systems of the Leipzig University.

As part of the "Software System Families and Product Lines" module of the Master's Degree programme for Business Information Systems, Rüdiger Schilling will give a guest lecture on model-driven development of DSLs and generators. External attendees are welcome to attend this guest lecture.

Guest lecture:

Model-driven Development of DSL's and Generators Rüdiger Schilling, CEO, Delta Software Technology

17th May 2011, 1:15 – 6:45

pmLeipzig University, Institute for Business Information Systems

Grimmaische Straße 12, seminar room 2 (I121)

D 04109 Leipzig

Please find more information on the website of the [University Leipzig](http://www.uni-leipzig.de).

Model-driven Development of DSLs and Generators

Although DSLs and generators are decisive components of the model-driven development, especially generators are often developed with out-dated programming techniques avoiding any kind of modelling and abstraction – just like the old saying: "The shoemaker's son always goes barefoot".

Rüdiger Schilling, CEO of Delta Software Technology and initiator of the frame-based and model-driven tools ANGIE® and HyperSenses® will show the development from generative proceedings to generator construction and explain advantages and disadvantages of each method:

- Classic principles of the generator development using macro and script languages

- Frame-based generators
- Completely model-driven generator and DSL development

Examples and practical exercises will clarify the differences between these development proceedings.

Furthermore, Rüdiger Schilling will show how to efficiently develop a product family for mobile apps. Mobile apps are a particularly concise and representative example for the problem, because besides the functional variations a large number of different platforms have to be considered at the same time.

Registration

Register right here and bring along your notebook with the latest Eclipse installation (Microsoft Windows) for the practical exercises.

Would You Like to Know More?

Please get in touch if you would like to develop domain-specific languages and software generators efficiently and economically.

Our customers confirm: the automation of software development by a model-driven development of DSLs and generators increases the quality and efficiency of your software development.

"I can imagine that model-driven development and product lines can bring similar innovative leaps like we achieved by the use of Delta AD-Plus and SCORE for our platform-independent product development."
Oswald Klackl, Manager Software Engineering B+S Bankssysteme

2 Modernization Spotlight: Step by Step to Sure Success

Long-term feasibility gained and costs reduced by a full IT modernisation in 3 steps: optimisation of the development processes and off-loading from mainframe to PC, elimination of all platform dependencies and modernisation of the application architecture, error-free platform and database change. In all project steps, the tools from Delta Software Technology have ensured quality, security and cost reduction.

RDW repeatedly has been awarded as the best and most innovative government



RDW

organization, for best management and best annual results. They know how to successfully accomplish projects. RDW ICT, the independent IT service provider of the national vehicle authority of The Netherlands, secure their extensive IT investments by a step-by-step modernisation. They rely on automation with Delta's software tools for development, modernisation and integration.

Step by Step with Early Results

Each single step of this extensive modernisation project at RDW provided excellent results.

1. Modernisation of the development processes and migration of the development environment from mainframe to Microsoft Windows
2. Establishing platform independence of the appli-

cations and comprehensive transformation of the application architecture into a flexible service-oriented layer architecture

3. Platform-change from mainframe to Microsoft Windows and migration of the database at the same time

Here you can find more and download the detailed project information.

What Would You Like to Modernize?

Please get in touch if you would like to modernise your applications and achieve sure success and early results. You have other platforms or special problems? Talk to us and we honestly tell you whether and how we are able to help you. You want references? Of course, we establish the contact.

Our customers confirm that the cooperation with Delta ensures that projects achieve their goals.

„Working with the people from Delta proved to be a very good choice. They delivered when other companies couldn't. From RDW's point of view Delta is a highly dedicated company with an even higher level of expertise.“
Gerard Doll, Director ICT RDW, The Netherlands

3 Workshop: Model-driven Development of Software Generators

Software generator development as separate domain of the model-driven software development provides an extremely high potential to automate the software development. As a specialist for generative develop-

HyperSenses
DSLs und Software-Generatoren

ment tools, Delta Software Technology therefore provides with HyperSenses a model-driven software development environment for the modeling and generation of domain-specific software generators.

On the 30th of May Delta will hold the second HyperSenses workshop in collaboration with New Nexus IT. This time the focus will be on the use of HyperSenses to model and construct generators for the production of applications for the multi-platform mobile world.

Mobile apps are prime examples for variant-rich development and require a model-driven development – independent of languages and platforms. In this domain it clearly proves to be true: model-driven software development already pays off for small projects – when using the right tools.

Simply Generate Your Generators Yourself

Economic – specific – first-class. How? Find it out in our workshop on May 27, 2011.

Workshop: HyperSenses

Model-driven Development of DSLs and Generators

May 30, 2011 (attention: new date)

New Nexus IT, Tynaarlo, Netherlands

Fees: 450 Euro excl. VAT

Contents:

- Methodical introduction: Generative software

development with frames “From the Programming of Generators to the Modelling and Generation of Generators”

- Introduction to HyperSenses
- Development of generators for the production of applications for mobile devices.

Registration

Register right here – there are only a small number of places left – and bring along your notebook with the latest Eclipse installation (Microsoft Windows) for the practical exercises.

More about DSLs and Generator Development

Variant-rich development and thereby application areas for domain-specific languages and software generators exist everywhere in the software development – not only for apps.

Visit our website for further information

- Software Generators Prevent Application Backlog Generate your software by yourself: economic – specific – first-class.
- HyperSenses The model-driven development system for DSLs and software generators.
- ESE - Excellence in Software Engineering How can the rapidly growing need for new software and new software variants be satisfied in an economic way?

Please get in touch if you would like to develop domain-specific languages and software generators efficiently and economically. For interested companies we offer the workshop also in-house at their location.

Our customers confirm: the automation of software development by a model-driven development of DSLs and generators increases the quality and efficiency of your software development.

„I can imagine that model-driven development and product lines can bring similar innovative leaps like we achieved by the use of Delta ADSplus and SCORE for our platform-independent product development.“
Oswald Klackl, Manager Software Engineering B+S Bankssysteme

4 ESE - Excellence in Software Engineering

How can the rapidly growing need for new software and new software variants be satisfied economically? This was one of the questions that has been answered by interesting lectures, workshops and discussions about software engineering, technologies and methods, quality and management during the three-day ESE Conference 2011 in Zürich.



As an international conference on software technology, the ESE Conference, that took place from 12 to 14 April 2011 in Zürich, was addressing in particular software architects, project managers, IT managers, method and process experts.

In his lecture, Rüdiger Schilling answered the question how reusable software can be created in order to be able to react to short-lived products and market cycles in an economic sense.

Generative Concepts for the Platform Zoo – for Instance Mobile-Apps

Mobile apps are a particularly significant example for the general problem of satisfying the constantly growing need for software and software variants. The biggest hurdle is the large number of alternative platforms (Android, iOS, Windows etc.). The already variant-rich development (modular system) for such applications thus gets even more complex by adding another dimension.

Rüdiger Schilling, CEO of Delta Software Technology, explained

- how this dilemma can be overcome by modern concepts for product lines and model-based generator development and
- how quality and productivity can be measurably increased in the software development.

If you have missed the lectures or want to read the contents again, please download the documents here:

<http://www.d-s-t-g.com/>



More about DSLs and Generator Development

The examples from current international projects demonstrate that Mobile Apps are, however, only a particularly concise example for the general problem of variant-rich development. Application areas for domain-specific languages and software generators exist everywhere in the software development – not only in the area of Apps.

Model-driven generative development already pays off for small projects. Refer to our website to get more information:

- [Software Generators Prevent Application Backlog](#) Generate your software by yourself: economic – specific – first-class.
- [HyperSenses](#) The model-driven development system for DSLs and software generators.

Workshop

The next workshop on model-driven development of software generators takes place on May 27, 2011. There are only a few places left. Click here for the workshop contents and registration.

[Workshop: Model-driven Development of Software Generators](#)

Would You Like to Know More?

Please get in touch if you would like to know how you can improve your development by using DSLs and software generators.

Workshop

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[Workshop: Model-driven Development of Software Generators](#)

More newsletters and our newsletter administration can be found here:
www.delta-software.com/newsletter

