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 Generative Software Development
 with Frames

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04.-05.10.2011 Leipzig University Autumn School: Automated Development of Software Generators and DSL

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

From 04. to 05. October 2011 Delta Software Technology offers in cooperation with the Institute for Business Information Systems of the Leipzig University a 2-day workshop as part of the Autumn School.

The focus will be on the use of HyperSenses to model and construct generators for the production of multi-platform and variant-rich applications. With HyperSenses, model-driven generative development already pays off for small

projects.

Simply generate your generators yourself: Economic – specific – first-class. How? Find it out at the Autumn School in Leipzig. External attendees are welcome.

Autumn School: HyperSenses Automated Development of Software Generators and DSLs
 04.-05. October 2011, Leipzig



Uni Leipzig Herbstschule: Automatisierte Entwicklung von Software-Generatoren und DSLs

Die Verwendung von HyperSenses zur Modellierung und zum Bau von Generatoren für die Fabrikation von multiplattform- und variantenreichen Anwendungen wird vom 4. - 5. Oktober 2011 am Institut für Wirtschaftsinformatik der Universität Leipzig in Zusammenarbeit mit Delta Software Technology im Rahmen der Herbstschule vorgestellt und erlebbar gemacht.

The Autumn School flyer is only available in German! Please notice that this event will be held in German language!

For our English-speaking customers and interested people, we will host a similar workshop in Cardiff on 11.-12. October 2011.

Further information on that event will follow soon!

Registration

The participation in this event is free of charge for our customers and interested visitors. Bring along your notebook with a current E-

clipse installation (Microsoft Windows; version 3.6 or higher 32bit) and JDK 1.6 32bit for the practical exercises.

HyperSenses for You

All workshop attendees will get the latest version of HyperSenses for free. You can use it...

- to learn more about the tool,
- to further develop the exercises or
- to realise own ideas and practical applications.

More about DSLs and Generator Development

Variant-rich development and therefore application areas for domain-specific languages and software generators exist everywhere in the software development. Some examples are embedded systems, customer-specific variants of software products and currently mobile apps, of course.

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.

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

We offer workshops specifically for your development domain and your requirements also in-house

at your location.

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

„HyperSenses has enabled HT Applications the support of a manifold of platform and customer variants of our smartphone apps without the burden of implementing the same functionality over and over again.“
Hessel van Tuinen, CEO, HT Applications, The Netherlands

30.05.2011 Workshop: Model-driven Development of Software Generators

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

ment – 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

17.05.2011

Guest lecture: "Model-driven Development of DSL's and Generators"

Guest lecture:

"Model-driven Development of DSLs and Generators"

by Rüdiger Schilling, Delta Software Technology
GmbH, on 17 May 2011

As part of the "Software Families and Product Lines" module of the Master's Degree programme Business Information Systems, Rüdiger Schilling will give a guest lecture on the model-driven development of DSLs and generators. The lecture will be held on 17.05.2011 from 13.15 to 18.45 PM, Grimmaische Straße 12, seminar room 2 (I 121). Extern attendees are welcome to this guest lecture.

[More information can be found on the Leipzig University website.](#)

12.-14.04.2011

ESE Conference - Excellence in Software Engineering

Excellence in Software Engineering:
From 12. to 14.04.2011 the ESE Conference 2011 offers you the opportunity to listen to lectures of recognized experts and to discuss with them about software engineering, technologies and methods, quality and management. As an international conference on software technology, the ESE Conference is intended for software architects, project managers, IT managers, method and process experts.



12 - 14 April 2011, Zürich, Switzerland

This time the ESE topics and contributions have been selected by a public selection procedure. In this way a high practical relevance is guaranteed.

We want to thank everybody who voted for our contribution.

SAXOS + Delta present: Generative Concepts for the Platform Zoo - Mobile-Apps

We answer the question how reusable software can be created to be able to react to short-lived products and market cycles in an economic sense.

Mobile apps are booming and increasingly used in the business environment. The biggest hurdle is the large number of alternative platforms (Android, iOS, Windows etc.). The already varied development (modular system) for such applications gets thus more complex for another dimension.

Mobile apps are a particularly significant and current example for the general problem of satisfying the constantly growing needs of software and software variants.

Rüdiger Schilling points out how this dilemma can be overcome by modern concepts for **product lines and model-based generator development** and which perspectives arise from it for the **quality and productivity increase in the software development**. For this purpose, examples from current international projects will be explained.

Our Speaker: Rüdiger Schilling

Rüdiger Schilling is the Managing director of Delta Software Technology GmbH. In this role he is responsible for the conceptual design and the application of generative software tools since more than twenty years. Model-driven development methods, automation techniques and domain-specific languages are main topics of his work.



not only visible for automotive and e-business but especially in the fast growing market for mobile devices like cell phones, tablet PC's and the like needing apps for the most different platforms - from Android over iOS to Windows Phone.

How software variants can be generated efficiently? We will answer that question on the BCD 2011. Delta Software Technology and HT Applications present the generation of mobile apps with HyperSenses for different platforms.

ESE Conference 2011 with Delta

We from SAXOS and Delta Software Technology look forward to meet you at ESE. Discuss with us the possibilities for an automation of your software development. Tell us about your suggestions. We will explain our methods and solutions.

The ESE Conference is being organized by Zühlke Engineering in Schlieren ([map](#), export date to Outlook).

22.-23.03.2011 Bedrijven Contactdagen 2011

Here you will find the complete overview of all lectures: Conference programme (in German)

Bedrijven Contactdagen

22. - 23.03.2011

WTC Expo, Leeuwarden (NL)

Stand 4631



HyperSenses - Generative Development for Mobile Apps

The immensely large demand for new software is

BCD - Bedrijven Contactdagen 2011

On 22. and 23. March 2011 more than 750 companies present their solutions in Leeuwarden on the 28. contact days for north netherlands companies („BCD – Bedrijven Contactdagen“). More than 20.000 visitors were expected on both days.

HyperSenses at HT Applications

Together with HT Applications, Delta Software Technology presents HyperSenses at Stand 4631, HyperSenses is a model-driven meta development environment dedicated to the development of software generators. We demonstrate the generation of mobile apps from HT Applications for different mobile platforms and varying customer-specific configurations.

HT Applications is a young dynamic company that develops commercial mobile apps for third parties. HT Applications wants to provide these apps for the complete range of mobile platforms without having to maintain source code for each variant. Therefore, HT Applications decided to use HyperSenses from Delta Software Technology to automatically generate the mobile apps for the different platforms and configurations.

HyperSenses - More Informationen

Learn more about HyperSenses with our product flyer. It describes where and how HyperSenses can help you to get better and faster results of your software development.



What are your requirements? Send us your request for information (RFI). We explain possible procedures, costs, necessary resources and tell you references.

[Request information now](#)

18.05.2010 Generative Software Development with Frames

As part of the cooperation with the Information Systems Institute of the University of Leipzig, Rüdiger Schilling and Cord Giese gave guest lectures at the University of Leipzig; the focus was on Delta's core technologies for the development and usage of code generators.

18 May 2010, Leipzig, Germany

The guest lectures dedicated to the topic "Generative Software-Entwicklung mit Frames" are part of the overall course "Software System Families and Product Lines" and took place on May 18th 2010 in Leipzig. The lectures were presented in Ger-

man.

Starting with the idea of using frames and slots for the generation of software, Cord Giese explained the motivation of the generator company Delta to develop an individual language for it: the generator language ANGIE. He explicated in detail the differences between the frame/slot concept and the usage of conventional templates. After the introductory theory a practical exercise took place. The focus of this exercise was the usage of the ANGIE frame technique.

Rüdiger Schilling used the examples from the exercise to illustrate fundamental questions in conjunction with the development of code generators. In this case, the focus was on the usage of model-driven techniques for the development of flexibly applicable generators. Such generators may be model-driven in turn, thus able to be just configured for different usage areas. Using the tool HyperSenses, Schilling demonstrated by means of concrete examples, how model-driven and bottom-up methods can be used for the construction of powerful generators. The lecture closed with the first-time presentation of Delta's new TextDSL technology.

Our Speakers: Rüdiger Schilling and Cord Giese



Rüdiger Schilling is the Managing director of Delta Software Technology GmbH. In this role he is responsible for the conceptual design and the application of generative software tools since more than twenty years. Model-driven develo-

ment methods, automation techniques and domain-specific languages are main topics of his work.



Cord Giese is responsible for research and development in the area of generative base technologies at Delta Software Technology GmbH. He regularly presents research results at conferences and in publications. Currently his work is focused on new methods and technologies for the automation of software development.

UNIVERSITÄT LEIPZIG
Institut für Wirtschaftsinformatik

Information Systems Institute at the University of Leipzig

The Information Systems Institute of the University of Leipzig is one of our most important research partners: besides a successful cooperation within the PESOA research project, a range of collaborative seminars and workshops about the topics generative programming, product lines and automation of software development has taken place.

The course "Software System Families and Product Lines" has been managed by Prof. Eisenecker. Many people interested in the area of the automation of software development know Prof. Eisenecker because of his book "Generative Programming". His research activities are dedicated to an increased automation of software development. The following topics are directly associated with this ambition: generative and model-based software development, software system families, domain-specific languages and generators.

Would You Like to Know More?

Please get in touch with us if you would like to know more about how Delta Software Technology can help you to improve the efficiency of your software development using automation.

Free Delta-Newsletter

Subscribe to our free newsletter now: www.delta-software.com/newsletter

