Call for Papers

NET.OBJECTDAYS 2000

Messekongresszentrum Erfurt, Germany
October 9 – 12, 2000

After their great individual success, ***Java*Days**, JIT, DJEK and STJA conferences (incl. GCSE) have now merged to form an even more attractive event: the ***Net.Object*Days 2000** conference. The *Java*Days was *the* German Java event last year in Düsseldorf.

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- ➤ Java and the Java Platform
- ➤ Universal Database Systems and XML
- ➤ Object-Oriented Software Systems incl. Smalltalk
- ➤ Generative and Component-based Software Engineering

Program Committee:
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S. Jarzabek (co-chair), *Nat. Univ. of Singapore*
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Organising Committee:
C. Cap, *Univ. of Rostock*
K. Czarnecki, *DaimlerChrysler*
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(list under expansion)

Important Dates:
June 15, 2000: Submission Deadline
July 15, 2000: Notification of Acceptance
Sep. 1, 2000: Camera Ready Version

Conference web site:
www.netobjectdays.org

Call for Papers for the Second International Symposium on
Generative and Component-Based Software Engineering

Organized by the Working Group "Generative and Component-Based Software Engineering" of the German GI e.V.

Component-based software development is expected to bring a productivity increase to software development comparable to the introduction of the assembly line in manufacturing. Unfortunately, current component technologies suffer from several problems. Over years of evolution and also during customization for reuse, components are affected by changes arising from new functional and non-functional requirements, new software architectures and component deployment strategies, new versions of a computing environment that affect component communication, etc. Due to those changes, components soon start suffering from complexity explosion, performance degradation and redundant implementations of similar features. The cumulative effect of this uncontrolled growth becomes prohibitive to reuse. Generative techniques have a potential to alleviate the above problems, as changes affecting components can now be more effectively managed during the generation process rather than at the component level. Using generative techniques, we can produce custom components from elements that can be considerably simpler than executable components themselves, keeping the complexity of an evolving component system under control. Both generative and component-based approaches require changes in analysis and design methods, particularly, to move their focus from single systems to product lines.

The goal of this symposium is to bring together researchers and practitioners from different areas related to generative development and component-based engineering and to stimulate integrative work. The symposium will include a technical papers session and pre-conference tutorials. The symposium will also feature a **Young Researchers Workshop** to be organized by Elke Pulvermueller (pulvermueller@acm.org), Andreas Speck (speck@informatik.uni-tuebingen.de), Kai Böllert, Detlef Streitferdt and Dirk Heuzeroth.

The relevant topics include, but are not limited to:

- Integration of generative and component-based approaches
- Generative reuse and component reuse
- Separation of concerns
- Metaprogramming systems
- Template metaprogramming
- Aspect-oriented programming
- Intentional programming
- Application generators
- GenVoca generators
- Transformation systems
- Component engineering and component-based development
- Analysis methods for component-based systems, modeling variants, OO analysis and UML
- Domain engineering and product line approaches
- Domain-specific languages
- Open compilers and open programming environments
- Active libraries
- Reflection
- Modularly extensible languages
- Multiparadigm approaches
- Partial evaluation

Papers combining concepts from more than one topic area are encouraged.

Submission Guidelines:

In order to foster a lively exchange of perspectives on the conference topics, the program committee encourages contributions from both researchers and practitioners. We shall consider papers in two categories:

❑ Research Paper (10 pages) ❑ Experience Report (3-6 pages)

Please submit papers in English via email to gcse-submission@cs.concordia.ca either as PDF or postscript format, possibly zip- or gzip-compressed. Accepted papers will be published in the conference proceedings. Submission guidelines and further updates will be published at: http://www.netobjectdays.org/gcse

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Important Dates:
May 15, 2000: Submission Deadline
June 30, 2000: Notification of Acceptance
Aug. 11, 2000: Camera Ready Version

Conference web site:
www.netobjectdays.org

Call for Papers on Java and the Java Platform

The conference part on Java aims to provide a forum for presenting and discussing new results, ideas, and experience amongst computer scientists and developers who use Java technology, develop it further or want to learn more about the latest developments. It addresses the same scope of topics as last year's JIT "Java-Information-Days".

In order to foster a lively exchange of perspectives on the conference topics, the program committee encourages contributions from both researchers and practitioners.

Topics of interest include the following Java related issues:

- Java programming language and extensions
- Virtual machines
- Theoretical aspects, formal methods
- Security, cryptography
- Modelling
- Components
- Design patterns
- Ubiquitous computing
- Middleware and distributed systems, incl. EJB
- Embedded systems
- Multimedia and Java
- User interfaces
- Enterprise computing and enterprise applications
- Web applications
- Consumer applications, appliances
- New applications or paradigms
- Practical experiences
- Case studies

Submission Guidelines:

☑ Research Papers: (max. 10 pages DIN A4) ☑ Experience Report: (from 4 to max. 10 pages A4)

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Accepted contributions will be published in proceedings in printed and electronic (CD-ROM) form. We intend to invite authors of excellent submissions to provide a possibly extended version of their work (in English) for a book published by a major publishing company.

Submissions should be sent via email (PDF preferred) to:
weber@informatik.uni-ulm.de

or as 5 paper copies to:

Prof. Dr. Michael Weber
Universität Ulm
Fakultät für Informatik
Oberer Eselsberg
89069 Ulm, Germany

http://www.netobjectdays.org/jit

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Call for Papers on Object-Oriented Software Systems

Object-Oriented Software Systems deals with all aspects of object oriented software development. It aims at a fruitful exchange between academic research and industrial applications.

In order to foster a lively exchange of perspectives on the conference topics, the program committee encourages contributions from both researchers and practitioners.

Topics of interest include:

- Methods and Languages for Modelling
- New developments in and around Smalltalk (e.g. Sqeak)
- Smalltalk and Business
- Requirements Engineering
- Software Architecture
- Implementation issues
- Design Patterns
- Frameworks
- Component Based Development
- Distributed Systems
- Internet- and Web-based Systems
- Process Models and Process Management
- Reuse
- Extreme Programming
- Software Quality
- Metrics
- CASE-Tools

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Please submit contributions via email (PDF - preferred) to: goedicke@informatik.uni-essen.de

or send 5 paper copies to:

Prof. Michael Goedicke
Universität-Gesamthochschule Essen
Fachbereich Mathematik u. Informatik
Altendorferstr. 97 - 101 (Opti-Gebäude)
D-45117 Essen, Germany

http://www.netobjectdays.org/ooss

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M. Jeckle (co-chair), *DaimlerChrysler AG*
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Call for Papers on Universal Database Systems and XML

Universal database systems enhance the capabilities of traditional database systems by their ability to handle vastly any kind of data, including text, image, audio, and video data, and to provide access to these data via SQL-like query languages. They do so by exploiting object-orientation to various extents. Universal database systems are particularly relevant to the Web, as they can provide input to content generators for Web pages, and can handle queries issued over the Internet. As universal databases hence start talking to each other over the Web, there is a fast growing interest in using the eXtensible Markup Language XML as the standard exchange format. As a result, database systems have begun to export, say, relational data to XML, and conversely to store XML data in relational tables. XML is on its way to become *the* communication and storage standard of the Web.

In order to foster a lively exchange of perspectives on the conference topics, the program committee encourages contributions from both researchers and practitioners.

Topics of interest include, but are not limited to:

- advanced relational database systems
- handling new types of data in databases
- storing and retrieving multimedia data
- SQL extensions for universal data access
- object-oriented database systems
- object query languages
- Web interfaces for database systems
- experience in using XML
- query languages and systems for XML
- database interfaces for XML
- DTD development
- XML server technology
- XML-based middleware
- XML-related languages, like XSL, XQL, XPointer
- XML grammars and streams
- XML languages (application of XML)
- XML as integral part of larger software systemsnter-business
- XML and business (XML/EDI)
- XML and E-Commerce

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