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.

Net.*Object*Days 2000 embraces object-oriented topics such as Java, Smalltalk, components, UML, embedded Java, databases and generative design methodologies. And, at the same time it addresses the way how the internet is radically changing best programming practices by covering XML, E-commerce, security and web-based computing. Like its predecessors, **Net.*Object*Days 2000** bridges the gap between universities and industry, between research and application. The conference provides a forum for OO- and web-developers both from industry and universities and for decision makers who will learn to look behind and beyond vendor presentations. The conference offers a variety of scientific and application related talks, tutorials, an exhibition, a vendor session and it carries on to present invited talks from respected international experts and trendsetters.

The scientific program is run by four program committees, each with its own Call for Papers:

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

Program Committee:

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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