

Call for Papers

Seventh International Conference on Generative Programming and Component Engineering (GPCE 2008)

<http://www.gpce.org>

October 19-23, 2008, co-located with OOPSLA'08 in Nashville, Tennessee

Scope Generative and component approaches are revolutionizing software development just as automation and components revolutionized manufacturing. Generative Programming (developing programs that synthesize other programs), Component Engineering (raising the level of modularization and analysis in application design), and Domain-Specific Languages (DSLs) (elevating program specifications to compact domain-specific notations that are easier to write, maintain, and analyze) are key technologies for automating program development.

The International Conference on Generative Programming and Component Engineering provides a venue for researchers and practitioners interested in techniques for enhancing the productivity, quality, and time-to-market in software development that stems from deploying components and automating program generation. In addition to exploring cutting-edge techniques for developing generative and component-based software, our goal is to foster further cross-fertilization between the software engineering and programming languages communities.

Research papers 10 pages in SIGPLAN proceedings style reporting original research results that contribute to scientific knowledge in the areas listed below (the PC chair can advise on appropriateness).

Experience reports 2 to 4 pages in length in SIGPLAN proceedings style. We encourage experience reports that provide concrete evidence with regards to the efficacy of generative technologies in industrial applications.

Topics GPCE seeks contributions in software engineering and in programming languages related to:

- Generative programming
 - Meta-programming, partial evaluation, multi-stage and multi-level languages, step-wise refinement, and generic programming.
 - Semantics, type systems, macros, templates, and program transformation.
 - Code generation, compilation, active libraries, formal methods, and reflection.
- Generative techniques for Product-line architectures, distributed, real-time and embedded systems, model-driven development and architecture, and resource bounded/safety critical systems.

- Component-based software engineering: software reuse, distributed platforms and middleware, evolution, patterns, and development methods.
- Domain engineering and analysis: domain-specific languages including visual and UML-based DSLs.
- Separation of concerns: Aspect-Oriented Programming, Intentional Programming, and multi-dimensional separation of concerns.

Submissions must adhere to SIGPLAN's policies.

Important Dates

May 12	Submission of abstracts
May 19	Submission of papers
June 30	Author notification
March 20	Tutorial and workshop proposals
April 5	Tutorial and workshop notification

Organizers

General Chair: Yannis Smaragdakis (Univ. of Oregon)

Program Chair: Jeremy Siek (Univ. of Colorado)

Satellite Chair: Ralf Lämmel (Univ. Koblenz-Landau)

Publicity Chair: Emir Pasalic (LogicBlox, Inc.)

Program Committee

David Abrahams (Boost Consulting)

Uwe Assmann (Technische Universität, Dresden)

Ira Baxter (Semantic Designs, USA)

Martin Bravenboer (Delft Univ. of Tech., The Netherlands)

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Shigeru Chiba (Tokyo Institute of Technology, Japan)

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Yossi Gil (The Technion, Israel)

Aniruddha Gokhale (Vanderbilt University, USA)

Mark Grechanik (Accenture Technology Labs, USA)

Stanislaw Jarzabek (National University of Singapore)

Jaakko Jarvi (Texas A&M University, USA)

Julia Lawall (DIKU, University of Copenhagen, Denmark)

Christian Lengauer (University of Passau, Germany)

Matthew Marcus (Adobe Systems Inc., USA)

Anne-Francoise Le Meur (University of Lille 1, France)

Sibylle Schupp (Chalmers University of Technology, Sweden)

Peter Sestoft (IT University of Copenhagen, Denmark)

Chung-chieh Shan (Rutgers University, USA)

Eric Van Wyk (University of Minnesota, USA)

Contact The email address gpce2008@gpce.org should be used for questions addressed to the organizers.