

[Special Issues](#)**Volume 12/ Issue 7**[Volume 12 \(2006\)](#)[Issue 1](#)[Issue 2](#)[Issue 3](#)[Issue 4](#)[Issue 5](#)[Issue 6](#)[Issue 7](#)[Issue 8](#)[Issue 9](#)[Issue 10](#)[Issue 11](#)[Volume 11 \(2005\)](#)[Volume 10 \(2004\)](#)[Volume 9 \(2003\)](#)[Volume 8 \(2002\)](#)[Volume 7 \(2001\)](#)[Volume 6 \(2000\)](#)[Volume 5 \(1999\)](#)[Volume 4 \(1998\)](#)[Volume 3 \(1997\)](#)[Volume 2 \(1996\)](#)[Volume 1 \(1995\)](#)[Volume 0 \(1994\)](#)[Articles by Category](#)[Articles by Author](#)[Board of Editors](#)[ACM Categories](#)[What's New](#)[Aims and Scope](#)[Submission](#)[Procedure](#)[Subscription](#)[Printed Publications](#)[Other UJS Journals](#)available in: [PDF \(45 kB\)](#) [PS \(58 kB\)](#)get: [Similar Docs](#) [BibTeX](#) [Write a comment](#)**Selected Papers from SBLP 2006:
The 10th Brazilian Symposium on Programming
Languages
J.UCS Special Issue**

Mariza Andrade Silva Bigonha (Department of Computer Scienc, Federal University of Minas Gerais, Belo Horizonte, MG, Brazil)
mariza@dcc.ufmg.br

Alex de Vasconcellos Garcia (Militar Institute of Engeneering, Rio de Janeiro, RJ, Brazil)
garcia@de9.ime.eb.br

Abstract: The 10th Brazilian Symposium on Programming Languages, SBLP, was held at Simon Hotel, Itatiaia, Rio de Janeiro, Brazil, on May 15-17, 2006. The SBLP is an event sponsored by the Brazilian Computer Society (SBC). It is a forum where researchers, educators, and practitioners can present and discuss the fundamental principles and innovations in the design, definition, analysis, transformation and implementation of programming languages and systems.

This SBLP edition featured the following contributions: (i) two tutorials: *Pervasive Computation: how to program*, and *Web Services in Java*; (ii) 16 technical papers on the following topics: program transformations, mobile, www and network, optimisation, tools and programming language environment, and theoretical foundations; (iii) five invited talks: *Register Allocation via Coloring of Chordal Graphs* and *Sensor Network Programming* (Jens Palsberg, UCLA-USA); *The Scalability Problem of Denotational Semantics* (Roberto S. Bigonha, UFMG-Brazil); *Code Generation Techniques for Embedded Processors* (Guido Araújo, UNICAMP-Brazil) and *What is natural language? Differences compared to artificial languages, and consequences for natural language processing* (Diana Santos, Lisbon-Portugal).

The Program Committee of the 10th SBLP received 50 submissions (46 technical papers and 4 tutorials) from which 16 full papers and two tutorials were selected performing an acceptance rate below 35%. All submissions were evaluated by five reviewers.

This Special Issue of J.UCS presents 11 papers selected from the 16 papers accepted for the SBLP 2006. They are organized by themes:

- **Compiler Optimisation:** [The Design of the YAP Compiler: An Optimizing Compiler for Logic Programming Languages](#), and [Our Experiences with Optimizations in Sun's Java Just-In-Time Compilers](#).
- **Programming Transformations:** [Detecting Bad Smells in AspectJ: Program Slicing by Calculation](#), and [The Language of the Visitor Design Pattern](#).
- **Mobile, WWW and Network:** [Strong Mobility in Mobile Haskell: An Object Model for Interoperable Systems](#), and [Expressing Workflow Patterns for Web Services: The case of PEWS](#).
- **Theoretical Foundations:** [Generic Process Algebra: A Programming Challenge](#); [Type-safe Versioned Object Query Language](#), and [Defining Atomic Composition for UML Behavioral Diagrams](#).

Page 762

As the editors of these special issue we would like to thank the authors. Our gratitude also goes to the Program Committee members and external referees for their substantive reviews, last but not least, the editorial team of J.UCS represented by Dana Kaiser.

Mariza Andrade Silva Bigonha
Alex de VasconcellosGarcia
(Itatiaia, may 15th, 2006)

PROGRAM COMMITTEE

Adriana Compagnoni, Stevens Tech	Alan Mitchell Durham, USP
Alberto Pardo, U. de La Republica	Alex Garcia, IME
Alfio Martini, PUC-RS	Álvaro Freitas Moreira, UFRGS
André Santos, UFPE	Carlos Camarão, UFMG
Cecília Rubira, UNICAMP	Christiano Braga, UFF
David Naumann, Stevens Tech	Edil Fernandes, UFRJ
Edward Hermann Haeusler, PUC-Rio	Francisco Heron C. Junior, UFC
Guy Cousineau, Univ. Paris	Isabel Cafezeiro, UFF
Jens Palsberg, UCLA	Johan Jeuring, Utrecht Univ.
John Hughes, Chalmers Univ.	João Saraiva, Univ. do Minho
José Guimarães, UFSCAR	Jose Labra, Univ. of Oviedo
Jose Luiz Fiadeiro, U. of Leicester	Lucília Figueiredo, UFOP
Luis Soares Barbosa, Univ.do Minho	Luiz Carlos Menezes, UFPE
Marcelo Maia, UFU	Marco Túlio O. Valente, PUC-MG
Mariza A.S.Bigonha, UFMG	Martin Musicante, UFRN
Nick Benton, Microsoft Research	Noemi Rodriguez, PUC-Rio
Paulo Blauth Menezes, UFRGS	Paulo Borba, UFPE
Peter D. Mosses, Univ. Wales Swansea	Peter Thiemann, Univ.Freiburg
Rafael Dueire Lins, UFPE	Renato A. C. Ferreira, UFMG
Renato Cerqueira, PUC-Rio	Ricardo Massa, UPE
Roberto S. Bigonha, UFMG	Roberto Ierusalimschy, PUC-Rio
Sandro Rigo, UNICAMP	Sérgio de Mello Schneider, UFU
Sérgio Soares, UPE	Sergiu Dascalu, Univ. of Nevada
Simon Thompson, Univ. of Kent	Varmo Vene, Univ. de Tartu
Vladimir Di Iorio, UFV	