

FOREWORD

The Brazilian Symposium on Programming Languages (SBLP) is a series of annual conferences promoted by the Brazilian Computer Science Society. SBLP 2007 is organized by the Computer Science Department (DIMAp) of the Federal University of Rio Grande do Norte (UFRN), in Natal. It is supported in part by CNPq, UFRN and Microsoft.

SBLP 2007 is the 11th edition in the series of SBLP events. Previous symposia were held in Belo Horizonte (1996), Campinas (1997), Porto Alegre (1999), Recife (2000), Curitiba (2001), Rio de Janeiro (2002), Ouro Preto (2003), Niterói (2004), Recife (2005) and Itatiaia (2006).

The Program Committee selected 15 papers and a tutorial from the total of 47 submissions (45 technical papers and two tutorials). Submitted papers came from Brazil, Germany, Portugal, France and India. Almost all papers were reviewed by at least five Program Committee members, who were often assisted by other referees. This program contains the timetable for all accepted papers, the tutorial and invited talks.

As in previous editions of the SBLP events, selected papers from the proceedings are eligible to be published in a Special Issue of the Journal of Universal Computer Science - JUCS.

We hope that all the attendees will have a productive and pleasant time during SBLP 2007 in Natal.

Be welcome!

May 2007,

Roberto S. Bigonha
Program Committee Chairman

Martin A. Musicante
General Chairman

Promoted by



Organization



Sponsors



SBLP 2007

<http://www.dimap.ufrn.br/sblp2007>

GENERAL CHAIR

Prof. Martin A. Musicante
DIMAp
Universidade Federal do Rio Grande do Norte
Campus Universitário Lagoa Nova
Caixa Postal 1524 - Natal - RN
CEP 59072-970 BRAZIL

PROGRAM COMMITTEE CHAIR

Prof. Roberto S. Bigonha
Departamento de Ciência da Computação
Instituto de Ciências Exatas
Universidade Federal de Minas Gerais
Av. Antônio Carlos, 6627, sala 4010
Belo Horizonte, CEP 31270-010 BRAZIL

SBLP 2007

XI SIMPÓSIO BRASILEIRO DE LINGUAGENS DE PROGRAMAÇÃO



*DIMAp - Universidade Federal do
Rio Grande do Norte*



Natal, Brazil – May 23, 24, 25, 2007

PROGRAMME

May 23, 2007 – (Wednesday)

08:00 - 09:00 Registration (lobby).

SESSION 1 (English): Specification Languages

chair: Mariza Bigonha

09:00 *CML: C Modeling Language..* Frederico de Oliveira Jr.(UPE), Ricardo Lima (UPE), Márcio Cornélio (UPE), Sérgio Soares (UPE), Paulo Maciel (UFPE), Raimundo Barreto (UFPE), Meuse Oliveira Jr. (UFPE), Eduardo Tavares (UFPE) .

09:30 *Constraint Programming Architectures: Review and a New Proposal.* Jacques Robin (UFPE), Jairson Vitorino (UFPE), Armin Wolf (Fraunhofer FIRST).

10:00 *Logic Programming for Verification of Object-Oriented Programming Law Conditions.* Leandro de Freitas (UPE), Marcel Caraciolo (UPE), Márcio Cornélio (UPE).

10:30 - 10:50 Coffee break.

SESSION 2 (English): Compilation Techniques

chair: Vladimir Di Iorio

11:00 *A Methodology for Removing LALR(k) Conflicts.* Leonardo Passos (UFMG), Mariza Bigonha (UFMG), Roberto Bigonha (UFMG).

11:30 *Optimized Compilation of Around Advice for Aspect Oriented Programs.* Eduardo Cordeiro (UFMG), Roberto Bigonha (UFMG), Mariza Bigonha (UFMG), Fabio Tirelo (UFMG).

12:00 - 13:30 Lunch break.

SESSION 3 (English): Language Design

chair: Paulo Borba

14:00 *A Visual Language for Animated Simulation.* Vladimir Di Iorio (UFV), Débora Coura (UFV), Leonardo Reis (UFV), Marcelo Oikawa (UFV), Carlos Roberto Junior (UFV).

14:30 *Improving Reusability in AspectLua.* Mauricio Vieira (UFRN), Thais Vasconcelos Batista (UFRN).

15:00 *Programming Through Spreadsheets and Tabular Abstractions.* Carlos Forster (ITA).

15:30 - 15:50 Coffee break.

16:00-18:00 **SESSION 4 (English): INVITED TALK**

chair: Roberto Bigonha

Modularity, Information Hiding, and Interfaces for Aspect-Oriented Languages

Paulo Borba, Centro de Informática, UFPE

19:00-20:30 **WELCOME SESSION**

May 24, 2007 – (Thursday)

8:00-10:00 **SESSION 5 (Portuguese) INVITED TUTORIAL**

chair: Ricardo Massa

Computação de Alto Desempenho em Plataforma Windows (I). Francisco Heron de Carvalho Júnior (UFC).

10:00 - 10:20 Coffee break.

SESSION 6 (English): Language Implementation

chair: Vladimir Di Iorio

10:30 *A New Architecture for Concurrent Lazy Cyclic Reference Counting on Multi-Processor Systems.* Andrei Formiga (UFPE), Rafael Lins (UFPE).

11:00 *Cyclic Reference Counting with Permanent Objects.* Rafael Lins (UFPE), Francisco Carvalho (UFPE).

11:30 *C APIs in Extension and Extensible Languages.* Hisham Muhammad (PUC-Rio), Roberto Ierusalimschy (PUC-Rio).

12:00 - 13:30 Lunch break.

SESSION 7 (English): Foundations

chair: Rafael Lins

14:00 *Higher-Order Lazy Functional Slicing.* Nuno Rodrigues (Universidade do Minho), Luis Barbosa (Universidade do Minho).

14:30 *Open and Closed Worlds for Overloading: a Definition and Support for Coexistence.* Carlos Camarão (UFMG), Cristiano Vasconcellos (UFPE), Lucília Figueiredo (UFOP), João Nicola (UFMG).

15:00 *Using Visitor Patterns in Object-Oriented Action Semantics.* Andre Murbach Maidl (UFPR), Martin Musicante (UFRN), Claudio Carvilhe (PUC-PR).

15:30 - 15:50 Coffee break.

16:00-18:00 **SESSION 8 (English): INVITED TALK**

chair: Martin Musicante

CDuce, an XML Processing Programming Language from Theory to Practice

Giuseppe Castagna, (CNRS) Université Paris 7 – France

May 25, 2007 – (Friday)

SESSION 9 (Portuguese): Aspect-Oriented Languages

chair: Roberto Bigonha

08:00 *Uma Linguagem Para Especificação e Combinação Dinâmica de Aspectos em Aplicações Orientadas a Serviço.* Nabor Mendonça (Unifor), Clayton Silva (Unifor), Ian Maia (Unifor), Tiago Cordeiro (Unifor).

08:30-10:00 **SESSION 10 (Portuguese): Tutorial**

chair: Francisco Carvalho-Júnior

Programação Avançada com Common Lisp: Meta-Programação e Linguagens de Domínio Específico. Pedro Kroger (UFBA)

10:00 - 10:20 Coffee break.

10:30-12:00 **SESSION 11A (Portuguese): SBC Meeting**

chair: Mariza Bigonha.

Steering Committee meeting with the community. Anfiteatro B.

10:30-12:00 **SESSION 11B (Portuguese): INVITED TALK.**

chair: Francisco Carvalho-Júnior

Oportunidades da Microsoft para Egressos das Universidades Brasileiras. Carlos Hulot (MICROSOFT). Anfiteatro A.

12:00 - 13:30 Lunch break.

14:00-15:30 **SESSION 12 (Portuguese): INVITED TALK**

chair: Martin Musicante

Programas Acadêmicos da Microsoft do Brasil. Carlos Hulot (MICROSOFT)

15:30 - 15:50 Coffee break.

16:00-18:00 **SESSION 13 (Portuguese) INVITED TUTORIAL**

chair: Ricardo Massa

Computação de Alto Desempenho em Plataforma Windows (II). Francisco Heron de Carvalho Júnior (UFC).