

ALBERTO DELGADO-ORTEGÓN

Curriculum Vitae (August 23, 2006)

Office

Dept. of Sciences and Engineering of Computing
Pontificia Universidad Javeriana - Cali, Colombia
+57.2.321.8200 Ext. 422
albertod@puj.edu.co, <http://cic.puj.edu.co/~adelgado>

Home

Carrera 60 No. 11B-80 Apt. 102 B1
Cali, Colombia
+57.300.610.6005 (Mobile)

PERSONAL INFORMATION

Last Name: Delgado-Ortegón. *Given Name:* Alberto.
Sex: Male. *Marital Status:* Single.
Citizenship: Colombian. *Date and Place of Birth:* November 29, 1981 in Cali (Colombia).

PRESENT RESEARCH INTERESTS

- Constraint programming, modelling and solving.
- Optimization problems.
- Formal methods.

EDUCATION

Computer Science Engineering Pontificia Universidad Javeriana - Cali, February 2006.
Five years of coursework and a research thesis.

Elective courses taken:

- Formal Models of Concurrency – Frank D. Valencia (2003).
- Fundamentals of Constraint Programming – Camilo Rueda (2002).

Thesis Work: Soft Constraints in Concurrent Constraint Programming: Design and Implementation. *Supervisor:* Prof. Camilo Rueda. November 2005.

This work was partially funded by the Colombian Agency for Science and Technology (COLCIENCIAS).

AWARDS AND DISTINCTIONS

- Laureate Thesis Award. February 2006.

PROFESSIONAL EXPERIENCE

Research Assistant

January 2006 – Present

AVISPA Research Group, Pontificia Universidad Javeriana – Cali

Research Project: *GeOZ: Improving Mozart Constraints Services.*

Senior Researchers: Prof. Camilo Rueda and Prof. Juan Francisco Daz.

The goal of this project is to integrate an efficient constraint programming library (GECODE) to a multiparadigm programming language (Mozart-OZ), removing all the constraint system of the language and replacing by a new implementation GECODE based. It aims to improve capabilities of the language with state-of-the-art approaches provided by the library.

Research Assistant

December 2002 – December 2004

AVISPA Research Group, Pontificia Universidad Javeriana – Cali

Research Project: CRISOL – Constraints Research and Innovation for Software Solutions.

Senior Researchers: Prof. Camilo Rueda and Dr. Juan F. Diaz

This project was funded by the Colombian Agency for Science and Technology (COLCIENCIAS).

I was involved in the research and development of state-of-the-art software tools for supporting concurrent constraint programming. My thesis was carried out in the context of this project.

TEACHING EXPERIENCE

Teaching Assistant

January-May 2006

Dept. of Engineering, Pontificia Universidad Javeriana – Cali

I was a teaching assistant of Programming Languages I. Course coordinated by Gustavo Gutiérrez.

PUBLICATIONS

Thesis

- *Soft Constraints in Concurrent Constraint Programming: Design and Implementation* (with J. Pérez). Pontificia Universidad Javeriana - Cali, November 2005.

Conference Publications

1. *Semiring-based Fuzzy Constraints in Concurrent Constraint Programming* (with J. Pérez, C. Olarte and C. Rueda). In Proceedings of the XXXI Latin American Computing Conference (CLEI 2005). ISBN: 958-670-462-2.
2. *Implementing an Abstraction Scheme for Soft Constraints* (with J. Pérez and C. Rueda). In J. D. Zucker and L. Saitta, editors, *Abstraction, Reformulation and Approximation: Proceedings of the Sixth International Symposium, SARA 2005*, volume 3607 of Lecture Notes in Artificial Intelligence. Springer, 2005.
3. *Implementing Semiring-Based Constraints Using Mozart* (with J. Pérez, C. Olarte and C. Rueda). In P. Van Roy, editor, *Multiparadigm Programming in Mozart/Oz: Extended Proceedings of the Second International Conference MOZ 2004*, volume 3389 of Lecture Notes in Computer Science, pages 224–236. Springer, 2005.
4. *An Interactive Tool for the Controlled Execution of an Automated Timetabling Constraint Engine* (with J. Pérez, G. Pabón, R. Jordan, J. F. Díaz and C. Rueda). In P. Van Roy, editor, *Multiparadigm Programming in Mozart/Oz: Extended Proceedings of the Second International Conference MOZ 2004*, volume 3389 of *Lecture Notes in Computer Science*, pages 322–332. Springer, 2005.

International Workshops

1. *Implementing Semiring-Based Constraints using a Concurrent Constraint Programming Language* (with J. Pérez, C. A. Olarte and C. Rueda). In S. Bistarelli and F. Rossi, editors, *Proc. of the Sixth Workshop on Preferences and Soft Constraints (Soft 2004)*, part of CP 2004. October 2004.

PRESENTATIONS

1. *Semiring-based Fuzzy Constraints in Concurrent Constraint Programming*. Paper presentation at the XXXI Latin American Computing Conference (CLEI 2005). Universidad Javeriana, Cali, Colombia, October 2005.

EXPERTISE

- *Constraint Theory*: Constraint Satisfaction Problems, Constraint Models, Soft Constraints, Abstracting theory.
- *Programming Languages*: Python, JAVA, C, C++, Mozart-Oz.

LANGUAGES

Spanish (native), English (fluent).

REFERENCES

- Professor Camilo Rueda. Director of the Department of Sciences and Engineering of Computing, Pontificia Universidad Javeriana, Cali, Colombia. email: crueda@cic.puj.edu.co.
- Professor Juan F. Díaz. School of Computer Science, Universidad del Valle, Cali, Colombia. email: jdiaz@eisc.univalle.edu.co
- Luis Quesada. Universit Catholique de Louvain (UCL), Louvain-la-Neuve, Belgium. email: luque@info.ucl.ac.be