

CV

Camilo Rueda

Background

Systems Engineer from Universidad de Los Andes, Bogotá, Colombia
MsC and DEE in Computer Science at MIT in the USA

Current position

- Full professor in the Faculty of Engineering, Universidad Javeriana-Cali, Colombia
- Chair of the Department of Science and Engineering of Computing, Universidad Javeriana-Cali
- Director of the Research group AVISPA (<http://avispa.puj.edu.co>)

Teaching

- Undergraduate professor at Universidad Javeriana-Cali, Colombia (formal models and programming paradigms, constraint programming)
- Master and doctorate professor at Universidad del Valle, Colombia (programming language semantics, constraint programming, programming models)
- Invited lecturer, Université de Caen, France (visual languages for computer music)
- Invited lecturer, *Conservatoire de musique de Lyon*, France (computer music)
- Invited lecturer, Master ATIAM-IRCAM, France (functional programming)

Research interests

- Concurrent Constraints Programming Calculi to model real-world systems
- Constraint languages and tools for solving combinatorial problems
- Programming languages and tools for music composition
- Formal models for developing and verifying software

Recent Projects

- REACT,: Robust theories for Emerging Applications in Concurrency Theory.
participants: Colciencias (Colombian government agency for research), Universidad Javeriana-Cali, IRCAM (Pars), cole Polytechnique (Pars)
- CRISOL: Constraint Research for Innovation in Software Solutions (2002-2005)
participants: Colciencias, Universidad Javeriana-Cali, Universidad del Valle, Parque Tecnológico de Software de Cali (technological park for software production, Cali)
- COCOS: COncstraints and COncurrency in Security
participants: Universidad Javeriana-Cali, LIX, École Polytechnique (Paris)
- GEOZ: Integrating Gecode into the Mozart Programming System
Participants: Universidad Javeriana-Cali, Université de Louvain (Belgium)

Some recent publications

A. Allombert, G. Assayag, M. Desainte-Catherine, and C. Rueda. Concurrent Constraint Models for Specifying Interactive Scores. In Proc. of the Third Sound and Music Computing Conference (SMC'06)., May 2006.

J. Gutierrez, J. A. Prez, C. Rueda and F. Valencia. Timed Concurrent Constraint Programming for Analyzing Biological Systems . In Proceedings of MeCBIC 2006 , Vol 171/2 pp 117-137 of Electronic Notes in Theoretical Computer Science, Elsevier.

C. Olarte, C. Rueda. A Stochastic Concurrent Constraint Based Framework to Model and Verify Biological Systems. Clei Electronic Journal, vol 9 (2), October 2006.

H. López, C. Palamidessi, J. A. Pérez, C. Rueda and F. Valencia. A Declarative Framework for Security: Secure Concurrent Constraint Programming (Short Abstract) In Proceedings of ICLP 2006 .

E. Monfroy, C. Olarte and C. Rueda. Exploring Process Calculi as a Mechanism to Define Dynamic Enumeration Strategies in Constraint Programming . In Proceedings of Latin American Informatics Conference CLEI 2006 , Santiago de Chile, 2006.

C. Rueda, G. Assayag, S. Dubnov. A Concurrent Constraints Factor Oracle Model for Music Improvisation . In Proceedings of Latin American Informatics Conference CLEI 2006 , Santiago de Chile, 2006.

A. Aristizábal, H. López, C. Rueda and F. Valencia. Formally Reasoning About Security Issues in P2P Protocols: A Case Study. In Proceedings of TFIT 2006 , March 2006.

C. Rueda and F. Valencia. A temporal concurrent constraint calculus as an audio processing framework. In Proceedings of SMC 05 (Sound and Music Computing '05) , Salerno (Italy), November 2005.

A. Delgado, J. A. Pérez and C. Rueda. Implementing an Abstraction Scheme for Soft Constraints. In Proceedings of SARA 2005: Symposium on Abstraction, Reformulation and Approximation , Airth Castle, Scotland, 2005.

C. Olarte and C. Rueda. A Stochastic Non-deterministic Temporal Concurrent Constraint Calculus. In Proc. of International Conference of the Chilean Computer Science Society (SCCC 2005). IEEE-CS, 2005.

C. Rueda and F. D. Valencia. Non-viability deductions in arc-consistency computation. In Proc. of the International Conference on Logic Programming (ICLP 2004), volume 3132 of Lecture Notes in Computer Science, pages 343-355. Springer, 2004.

J. F. Diaz, G. Gutierrez, C. A. Olarte, and C. Rueda. Using Constraint Programming for Reconfiguration of Electrical Power Distribution Networks. In P. Van Roy, editor, Multiparadigm Programming in Mozart/Oz, Lecture Notes in Computer Science, 3389, pages 263-276. Springer, 2004.

C. Rueda and F. D. Valencia. On validity in modelization of musical problems by ccp. *Soft Computing*, 8(9):641-648, 2004.

Program committees

Reviewer of *Constraints* journal, International Computer Music conference (ICMC), Latin American Informatics conference (CLEI)

Guest editor, Clei Electronic Journal (2006)