

Charlotte Truchet

Born:	July 6th, 1974	Citizenship:	French
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Dr. Charlotte Truchet received her PhD in Computer Science from Paris 7 University in 2004. She worked on application of Constraint Programming (CP) to musical contemporary composition, mostly with Local Search (LS) techniques, and designed a LS-based solving tool in Open Music, a programming language dedicated to music. Later, she edited, with Gérard Assayag (IRCAM), a book on musical applications of CP: "Constraint Programming in Music", ISTE/Wiley, 2011. Since 2005, she is assistant professor at Nantes University, in the TASC team, which gathers around 20 researchers in CP. Her main research interests are: global constraints (generic model), extension of CP techniques, including LS, to problems with both discrete and continuous variables, and prediction models for the behavior of solving algorithms, using applied probabilities. She recently got interested in using these modeling tools for predicting the behavior of parallel LS algorithms. She is also involved in the animation of the CP community: apart from being a reviewer for several conferences in the domain, she has served as the secretary for the french CP association (AFPC) for four years, has organized the french CP conference in Nantes in 2008 (JFPC'08) and was program chair of the same conference this year (JFPC'13).

Professional Experience

2000-2003:	Graduate Assistant, Université Paris 6, France
2003-2004:	Research Engineer, Université Paris 6, France
2004-2005:	Post-Doctoral Position, Université de Nantes, France
2005-Present:	Assistant Professor, Université de Nantes, France

Publications

5 most relevant publications:

1. Charlotte Truchet, Florian Richoux and Philippe Codognet: Prediction of Parallel Speed-ups for Las Vegas Algorithms, in Proc. of International Conference on Parallel Processing 2013, Lyon, France
2. Alejandro Arbelaez, Philippe Codognet and Charlotte Truchet: Using Runtime Distributions for the Analysis and Parallelization of Local Search for SAT, in Proc. International Conference on Logic Programming, 2013, Istanbul, Turkey
3. Jérémie Du Boisberranger, Danièle Gardy, Xavier Lorca, Charlotte Truchet: When is it worthwhile to propagate a constraint? A probabilistic analysis of AllDifferent, in Proc. of the 10th Meeting on Analytic Algorithmics and Combinatorics, 2013, New Orleans, USA
4. Marie Pelleau, Charlotte Truchet, Frédéric Benhamou: Octagonal Domains for Continuous Constraints. in Proc. of CP 2011, Perrugia, Italy *Best student paper award*
5. Marie Pelleau, Pascal Van Hentenryck, Charlotte Truchet: Sonet Network Design Problems, in Proc. of 6th International Workshop on Local Search Techniques in Constraint Satisfaction, held in conjunction with CP 2009, Lisbon, Portugal

Other Activites

- Peer referee: CP, Constraints, ISMIR, ICMC, CPAIOR
- PC member: JFPC (2004 - 2010), ECAI 2012