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Marie Pelleau

Associate Professor
at Université Nice Sophia Antipolis

Education

2009 – 2012	**Ph.D. in computer science**, *LINA (team TASC)*, Université de Nantes, defended on november 29th 2012. *Title* Domaines abstraits en Programmation par Contraintes *Supervisors* Frédéric Benhamou, Pascal van Hentenryck and Charlotte Truchet *Committee* Pedro Barahona, Xavier Rival and Benoit Baudry
2008 – 2009	**Master in computer science**, *Optimisation and Operational Research*, Université de Nantes, Ranked: 3rd out of 11.
2007 – 2008	**Fourth year in computer science**, Université de Nantes, Ranked: 7th out of 61.
2006 – 2007	**Third year in computer science**, Université de Nantes, Ranked: 1st out of 64.
2006	**University diploma in computer science**, *Programmer Object Java*, Université de la Nouvelle-Calédonie.
2005	**Second year in computer science**, Université de la Nouvelle-Calédonie.
2004	**First year**, *Mathematics and computer science applied to sciences*, Université de la Nouvelle-Calédonie.

Professional Experience

10/2017 – actuel	**Associate professor**, *i3s (team MDSC)*, Université Nice Sophia Antipolis.
02/2016 – 09/2017	**Postdoctoral fellow**, *LIP6 (team APR)*, Université Pierre et Marie Curie – École Normale Supérieure. Combination of Abstract Interpretation and Constraint Programming
04/2015 – 10/2015	**Postdoctoral fellow**, *CIRRELT*, Université de Montréal. Scheduling agents using forecast call arrivals in call centers
09/2013 – 01/2015	**Postdoctoral fellow**, *CIRRELT*, Université de Montréal. Scheduling agents using forecast call arrivals at Hydro-Québec's call centers
10/2012 – 08/2013	**ATER (1/2 poste)**, *LINA (team TASC)*, Université de Nantes.
11/2011	**Research intern**, *DIENS (team Abstraction)*, École Normale Supérieure.
10/2009 – 09/2012	**Ph.D. student**, *LINA (team TASC)*, Université de Nantes.
06/2006 - 08/2006	**Research intern**, Institut de Recherche pour le Développement, Nouvelle-Calédonie.

Scientific Activities

Invited Talks

Workshop	AbSolute: From Static Analyzer to Constraint Solver, *The 2017 Edition of the Workshop on Constraint Solvers in Testing, Verification and Analysis*, Melbourne, Australia, 2017.
Seminar	AbSolute, un solveur basé sur les domaines abstraits, *the CEA LSL seminar*, Saclay, France, 2017.

Scientific committees

Organisation	CP-DP'15, CPAIOR 2012 (participation), Ph.D. students seminars.
Program	IJCAI'18, SMT 2018, CP 2018, CP 2017 (Test & Verification Track), ICTAI 2017 (SAT/CSP Track), IJCAI'16, CP-DP'16, JFPC 2018, JFPC 2016, JFPC 2015, JFPC 2014.

Reviews

Conferences	AAAI'17, CP 2016, CP 2015, JFPC 2011, JFPC 2010.

Publications

Ph.D. Thesis

`.pdf` M. PELLEAU, Domaines abstraits en programmation par contraintes, *Ph.D. thesis,* Université de Nantes, France, Novembre 2012.

Books

`.pdf` M. PELLEAU, Abstract Domains in Constraint Programming, *Elsevier Science Publishers,* 2015.

Refereed international journal

`.pdf` M. PELLEAU, C. TRUCHET, F. BENHAMOU, The Octagon Abstract Domain for Continuous Constraint, *Constraints, Volume 19, Issue 3,* July 2014.

Refereed international conferences with proceedings

`.pdf` M. PELLEAU, L.-M. ROUSSEAU, P. L'ECUYER, W. ZEGAL, L. DELORME, Scheduling agents using forecast call arrivals at Hydro-Québec's call centers, (short paper), *20th International Conference on Principle and Practice of Constraint Programming (CP),* Lyon, France, 2014.

`.pdf` M. PELLEAU, A. MINÉ, C. TRUCHET, F. BENHAMOU, Constraint Solver based on Abstract Domains, *14th International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI),* Rome, Italie, 2013.

`.pdf` M. PELLEAU, C. TRUCHET, F. BENHAMOU, Octagonal Domains for Continuous Constraints, *17th International Conference on Principle and Practice of Constraint Programming (CP),* Perugia, Italie, 2011.

`.pdf` M. PELLEAU, C. TRUCHET, F. BENHAMOU, Abstract domains for constraint programming, with the example of octagons, *12th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC),* Timisoara, Roumanie, 2010.

Refereed international workshops with proceedings

`.pdf` M. PELLEAU, P. VAN HENTENRYCK, C. TRUCHET, Sonet Network Design Problems, *6th International Workshop on Local Search Techniques in Constraint Satisfaction (LSCS),* Lisbonne, Portugal, 2009.

Refereed national conferences with proceedings

`.pdf` G. ZIAT, M. PELLEAU, C. TRUCHET, A. MINÉ, Améliorer la propagation : l'Importance d'être Inconsistant, *13e Journées Francophones de Programmation par Contraintes (JFPC),* Montreuil sur Mer, France, 2017.

`.pdf` M. PELLEAU, A. MINÉ, C. TRUCHET, F. BENHAMOU, Un solveur de contraintes basé sur les domaines abstraits, *9e Journées Francophones de Programmation par Contraintes (JFPC),* Aix-en-Provence, France, 2013.

`.pdf` M. PELLEAU, C. TRUCHET, F. BENHAMOU, Au-delà des produits cartésiens de domaines : l'exemple des octogones, *7e Journées Francophones de Programmation par Contraintes (JFPC),* Lyon, France, 2011.

Refereed international conferences or workshop with abstracts

M. PELLEAU, E. RAUZY, G. ZIAT, C. TRUCHET, A. MINÉ, Mixing Polyhedra and Boxes Abstract Domain for Constraint Solving, *CP meets Verification Workshop,* Toulouse, France, 2016.

M. PELLEAU, L.-M. ROUSSEAU, P. L'ECUYER, Simulation-based Scheduling of Agents using Historical Data in Call Centers, *CORS/INFORMS 2015 Joint International Meeting,* Montreal, Canada, 2015.

M. PELLEAU, L.-M. ROUSSEAU, P. L?ECUYER, W. ZEGAL, L. DELORME, Scheduling agents using forecast call arrivals at Hydro-Québec's call centers, *INFORMS Computing Society Conference (ICS),* Richmond, Virginia, USA, 2015.

M. PELLEAU, C. TRUCHET, F. BENHAMOU, Octagonal Domains for Constraint Programming, *21st International Symposium on Mathematical Programming (ISMP),* Berlin, Allemagne, 2012.

Refereed national conferences or workshop with abstracts

M. Pelleau, L.-M. Rousseau, P. L?Ecuyer, W. Zegal, L. Delorme, Scheduling agents using forecast call arrivals at Hydro-Québec's call centers, *Journées de l'Optimisations (JOpt),* Montreal, Canada, 2014.

Distinctions

Best Student Paper Award, *for the paper Octagonal Domains for Continuous Constraint*, CP 2011.