JONCOUR Cédric
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UFR des Sciences et Techniques
Université du Havre
25 rue Philippe Lebon
76063 Le Havre Cedex

PhD IN APPLIED MATHEMATICS

Operational research, Optimization

SCIENTIFIC SKILLS

Mathematical competences

Theorical methods : linear and mixed integer programming, decomposition approaches, cut and column generation, polyhedral description, combinatorial algorithms, graph theory,...

Knowledge constraint programming, stochastic programming, game theory, multi objective optimization, non linear programming,...

Applications : cutting, logistic, lot sizing, network, packing, routing, scheduling,...

Industrial applications

Participation to challenge ROADEF/EURO 2010 proposed by EDF
Subject : A large-scale energy scheduling and management problem

Computer science

Operating systems : Linux, Mac OS, Windows
Software : FICO Xpress, GLPK, IBM ILOG CPLEX, LaTeX
Programming language : C, C++, Fortran, Java, Scilab

PROFESSIONAL EXPERIENCES

Since 2011 — **Assistant professor** — University of Le Havre

2007-2011 — **Member of INRIA Project team ReAlOpt** : Reformulation and Algorithms for combinatorial Optimization — Talence

2010-2011 — **Temporary contract as a research and teaching assistant** — Talence

2007-2010 — **Ministerial research allocation contrat** — University of Bordeaux 1

2007-2008 — **Ad-hoc employee as teaching assistant** — University of Bordeaux 1

EDUCATION

2007-2010 — **PhD in Applied Mathematics** — University of Bordeaux 1
under the direction of A. Pêcher and F. Vanderbeck
Subject : 2D orthogonal packing and scheduling problems
committee's composition :

Sylvain GRAVIER,	Referee,	CNRS' Researcher at University of Grenoble
Frédéric MESSINE,	Referee,	Assistant professor at University of Toulouse
Andrew MILLER,	President,	Professor at University of Bordeaux
Arnaud PECHER,	Advisor,	Professor at University of Bordeaux
Francis SOURD,		Researcher at SNCF
François VANDERBECK,	Advisor,	Professor at University of Bordeaux

National qualification number : 11226220041

2006-2007 — **Master degree of mathematics modelization and applications,** *« mention bien »* — University of Bordeaux 1

Professional training course : A waste collection problem solved by a column generation method, at Exeos Solutions — Bidart

PUBLISHED PAPERS

Published in 2011
- C. Joncour and A. Pêcher. « Consecutive ones matrices for multi-dimensional orthogonal packing problems ». Journal of Mathematical Modelling and Algorithms
- C. Joncour, A. Pêcher and P. Valicov. « MPQ-trees for orthogonal packing problem ». Journal of Mathematical Modelling and Algorithms

INTERNATIONALE CONFERENCES

March 2010
International Symposium on Combinatorial Optimization. HAMMAMET, TUNISIA
Conference with proceedings
- C. Joncour and A. Pêcher. « Consecutive ones matrices for multi-dimensional orthogonal packing problems »
- C. Joncour and A. Pêcher. « MPQ-trees for orthogonal packing problem »
- C. Joncour, S. Michel, R. Sadykov, D. Sverdlov and F. Vanderbeck. « Column Generation based Primal Heuristics »

August 2009
International Symposium on Mathematical Programming. CHICAGO, UNITED STATES
- C. Joncour and A. Pêcher. « Consecutive ones matrices for multi-dimensional orthogonal packing problems »

NATIONAL CONFERENCES

February 2010
ROADEF 2010. TOULOUSE

June 2009
« Journées Polyèdres et Optimisation Combinatoire ». BORDEAUX

February 2008
ROADEF 2008. CLERMONT-FERRAND

TEACHING

2010-2011
- Advisor for an informatic project for master 2 students' (12h)
- Pratice work in object oriented programming for master 2 students' (14h)
- Pratice work in combinatorial optimization for master 1 students' (14h)
- Pratice work in linear programming for master 1 students' (28h)
- Pratice work in modelization and methods for optimization for licence 2 students' (15h)

2009-2010
- Advisor for a professional course training in master 2 (12h)
- Advisor for an informatic project for master 2 students' (12h)

2007-2008
- Pratice work in modelization and methods for optimization for licence 3 students' (48h)
- Pratice work in algorithmic and programming for scientific computation for licence 3 students' (12h)

OTHERS ACTIVITIES

Previous responsability
2010-2011 : Member of the scientific committee of the university of Bordeaux 1
2008-2010 : Member of the driving committee of the doctoral school
2008-2010 : Member of the INRIA center committee
2008-2009 : President of the mathematic PhD students' association

Languages
French (native language), scientific english and basic spanish

Leisures
Movie, Music, Puzzle, Sports