

## PUBLICATIONS depuis 2008

### Activité éditoriale

[DW18] C. Dubois, B. Wolff. *Tests and Proofs - 12th International Conference, TAP 2018*, Held as Part of STAF 2018, Toulouse, France, June 27-29, 2018, Proceedings. Lecture Notes in Computer Science 10889, Springer 2018,

[CDD18] M. Cristiá, D. Delahaye, C. Dubois. *Proceedings of the 3rd International Workshop on Sets and Tools co-located with the 6th International ABZ Conference, SETS@ABZ 2018, Southampton, UK, June 5, 2018*, CEUR Workshop Proceedings, volume 2199, 2018.

[DWP17] C. Dubois, B. Woltzenlogel Paleo. *Proceedings of the Fifth Workshop on Proof eXchange for Theorem Proving, PxTP 2017*, Brasília, Brazil, 23-24 September 2017. EPTCS 262, 2017

[DMM17] C. Dubois, P. Masci, D. Méry. *Proceedings of the Third Workshop on Formal Integrated Development Environment, F-IDE@FM 2016*, Limassol, Cyprus, November 8, 2016. EPTCS 240, 2017

[DDPR16] G. Dowek, C. Dubois, B. Pientka, F. Rabe. *Universality of Proofs* (Dagstuhl Seminar 16421). Dagstuhl Reports 6(10): 75-98 (2016)

[DPPKM16] C. Dubois, F. Parisi-Presicce, D. S. Kolovos, N. Matragkas. *Joint Proceedings of the Doctoral Symposium and Projects Showcase* Held as Part of STAF 2016 co-located with Software Technologies: Applications and Foundations (STAF 2016), Vienna, Austria, July 4-7, 2016. CEUR Workshop Proceedings 1675.

[DL15] C. Dubois, R. Laleau. *Approches formelles pour le développement de logiciels*. Technique et Science Informatiques. Vol.34/5 - 2015. Lavoisier.

[DMM15] C. Dubois, P. Masci, D. Méry. Proceedings Second International Workshop on Formal Integrated Development Environment, *F-IDE 2015*, affiliated to FM 2015, Oslo, Norway, June 22, 2015. EPTCS 187, 2015.

[DD15] D. Delahaye, C. Dubois - Proceedings of the second workshop about Sets and Tools, *SETS 2015*, affiliated to FM 2015, June 2015, Informal proceedings.

[DGM14] C. Dubois, D. Giannakopoulou, D. Méry. First workshop on Formal Integrated Development environment, *F-IDE 2014*. Electronic Proceedings in Theoretical Computer Science (EPTCS 149), 6 avril 2014, European Joint Conferences on Theory and Practice of Software (ETAPS), Grenoble.

[DD14] D. Delahaye, C. Dubois - Proceedings of the first workshop about Sets and Tools, *SETS 2014*, affiliated to ABZ 2014, June 2014, Informal proceedings.

[DDL14] C. Dubois, L. Duchien, N. Levy, Actes des Sixièmes journées nationales du Groupement De Recherche CNRS du Génie de la Programmation et du Logiciel, 239 pages, hal-01055907v1, 2014,

[DR14] C. Dubois, R. Laleau, Actes de la 13 ème édition d'AFADL, atelier francophone sur les Approches Formelles dans l'Assistance au Développement de Logiciels, pp.140, hal-00997676, 2014.

[Dub09] C. Dubois, Tests and Proofs, Third International Conference, TAP 2009, Zurich, Switzerland, July 2-3, 2009. Proceedings Springer, LNCS 5668, 2009.

### Revue internationale (avec comité de lecture)

[DA18] C. Dubois, A. Giorgetti. Formal Aspects of Computing. (2018). <https://doi.org/10.1007/s00165-018-0459-1>

[JBD15] M. Jacquél, K. Berkani, D. Delahaye, C. Dubois. *Verifying B proof rules using deep embedding and automated theorem proving*. in Journal of Software and Systems Modeling (SoSyM), 14(1), 101-119, (doi:10.1007/s10270-013-0322-z).

[JBDD14] M. Jacquél, K. Berkani, D. Delahaye, C. Dubois. *Tableaux Modulo Theories using Superdeduction*. Global Journal of Advanced Software Engineering (GJASE), 1:1—13, December 2014.

## Revue nationale (avec comité de lecture)

[SDGG15] D. Sadoun, C. Dubois, Y. Ghamri-Doudane, B. Grau. *Représentation et vérification d'un environnement intelligent à partir de spécifications utilisateur en langage naturel*, Revue d'intelligence artificielle, 29(1): 47-81 (2015).

## Conférences internationales (avec comité de lecture)

[DGPC18] C. Dubois, O. Grinchtein, J. Pearson, M. Carlsson. *Exploring Properties of a Telecommunication Protocol with Message Delay Using Interactive Theorem Proving*. Software Engineering and Formal Methods - 16th International Conference, SEFM 2018, Held as Part of STAF 2018, Toulouse, France, June 27-29, 2018, Proceedings. Lecture Notes in Computer Science 10886, pp 239-253.

[CD17] R. Cauderlier, C. Dubois. *FoCaLiZe and Dedukti to the Rescue for Proof Interoperability*. Interactive Theorem Proving - 8th International Conference, ITP 2017, Brasília, Brazil, September 26-29, 2017, Proceedings. Lecture Notes in Computer Science 10499 - ITP 2017: 131-147.

[CD16] R. Cauderlier, C. Dubois. *ML Pattern-Matching, Recursion, and Rewriting: From FoCaLiZe to Dedukti*. Theoretical Aspects of Computing - ICTAC 2016 - Taipei, Taiwan, ROC, October 2016, LNCS 9965, pp 459-468, 2016.

[DGG16] C. Dubois, A. Giorgetti, R. Genestier. *Tests and Proofs for Enumerative Combinatorics*. Tests and Proofs - TAP 2016, Vienna, Austria, July 2016, LNCS 9762, pp 57-75.

[DP15] C. Dubois, F. Pessaux. *Termination Proofs for Recursive Functions in FoCaLiZe*. Trends in Functional Programming 16th International Symposium, TFP 2015, Sophia-Antipolis, France, 2-5 June, 2015. Revised Selected Papers.

[CD15] R. Cauderlier, C. Dubois. *Objects and Subtyping in the Lambda-Pi-Calculus Modulo*. Post-proceedings of the 20th International Conference on Types for Proofs and Programs (TYPES 2014). LIPIcs, vol. 39, 47-71, 2015.

[DDM14] D. Delahaye, C. Dubois, C. Marché and D. Mentré. *The BWare Project: Building a Proof Platform for the Automated Verification of B Proof Obligations*. Abstract State Machines, Alloy, B, VDM, and Z - Third International Conference, ABZ 2014, LNCS 8477, papier court, 290–293, Toulouse, France, (DOI: 10.1007/978-3-662-43652-3\_26)

[SDG14] D. Sadoun , C. Dubois, Y. Ghamri-Doudane , B. Grau - Formal Rule Representation and Verification from Natural Language Requirements Using an Ontology, RuleML, August 2014, LNCS, Vol. 8620, pp.226-235, Prague, Czech Republic, (DOI: 10.1007/978-3-319-09870-8\_17)

[DR14] C. Dubois, R. Rioboo - Verified functional iterators using the FoCaLiZe environment, Software Engineering and Formal Methods, pp.317–331, LNCS 8702, September 2014, Grenoble, France.

[SDG13] D. Sadoun, C. Dubois, Y. Ghamri-Doudane, B. Grau. *From Natural Language Requirements to Formal Specification Using an Ontology*. IEEE 25th International Conference on Tools with Artificial Intelligence (ICTAI 2013), pp 755-760. Herndon, VA, USA, Novembre 2013.

[TDD12] P.-N. Tollitte, D. Delahaye, C. Dubois. *Producing Certified Functional Code from Inductive Specifications*. International Conference on Certified Programs and Proofs (CPP 2012), décembre

2012, Vol. 7679, Series LNCS, pp. 76-91, Kyoto, Japon.

[ABD12] P. Ayrault, V. Benayoun, C. Dubois, F. Pessaux, *ML Dependency Analysis for Assessors*. International Conference on Software Engineering and Formal Methods (SEFM'12), October 2012, Vol. 7504, p. 278-292, Series LNCS, Thessaloniki, Greece.

[CDG12a] M. Carlier, C. Dubois, A. Gotlieb. *A certified constraint solver over finite domains*. Formal Methods (FM 2012), August 2012, Vol. 7436, pp.116-131, Series LNCS, Paris, France.

[CDG12] M. Carlier, C. Dubois, A. Gotlieb. *A first step in the design of a formally verified constraint-based testing tool: FocalTest*, Tests and Proofs, May 2012, Vol. 7305, pp.35-50, Series LNCS, Prague, République tchèque,

[JBD12] M. Jacquél, K. Berkani, D. Delahaye, C. Dubois, *Tableaux Modulo Theories Using Superdeduction - An Application to the Verification of B Proof Rules with the Zenon Automated Theorem Prover*. International Joint Conference on Automated Reasoning (IJCAR 2012), Juin 2012, Vol. 7364, pp.332-338, Series LNAI, Manchester, UK.

[JBD11] M. Jacquél, K. Berkani, D. Delahaye, C. Dubois, *Verifying B Proof Rules Using Deep Embedding and Automated Theorem Proving*. International Conference on Software Engineering and Formal Methods (SEFM 2011), pages 253-268, Novembre 2011.

[CDG10] M. Carlier, C. Dubois, A. Gotlieb. *Constraint Reasoning in FocalTest*. 5th Int. Conf ICSOFT 2010, Athens, Greece, July 22-24, 2010. Revised Selected Papers, Vol 170, Series Communications in Computer and Information Science, 2013.

[CD08] M. Carlier et C. Dubois. *Functional Testing in the Focal environment*. In Test And Proof, (TAP'2008), Prato (Italy), B. Berckert and R. Hahnle eds, LNCS 4966, pp 84-98, 2008.

## Workshops internationaux (avec comité de lecture et actes)

[DW18] C. Dubois, S. Weppe. *Towards Coq Formalisation of  $\{log\}$  Set Constraints Resolution*. SETS@ABZ 2018 - Southampton, UK, June 2018.

[PDL15] T. Pham, C. Dubois, N Levy. *Towards correct-by-construction product variants of a software product line: GFML, a formal language for feature modules*, FMSPLE 2015, workshop affilié à ETAPS 2015, avril 2015, Londres. EPTCS 182, pp 44-55, 2015.

[DFG13] C. Dubois, M. Famelis, M. Gogolla, L. Nóbrega, I. Ober, M. Seidl, M. Völter. *Research Questions for Validation and Verification in the Context of Model-Based Engineering*. 10th International Workshop on Model Driven Engineering, Verification and Validation MoDeVVA 2013, co-located with MoDELS 2013, pp 67-76, Miami, Florida, October 2013.

## Conférences nationales avec comité de lecture

[Dub19] C. Dubois. *Formally Verified Decomposition of Non-binary Constraints into Equivalent Binary Constraints*, JFLA 2019, Les Rousses, France, 2019, <https://hal.archives-ouvertes.fr/hal-01985195v1>

[GDL19] A. Giorgetti, C. Dubois, R. Lazarini *Combinatoire formelle avec Why3 et Coq*, JFLA 2019, Les Rousses, France, 2019, <https://hal.archives-ouvertes.fr/hal-01985195v1>

[DBE16] C. Dubois, A. Butant, S. Elloumi. *Preuve formelle et contrainte alldiff*. ROADEF 2016 Compiègne, Février 2016, France,

[PDL17] T. Pham, C. Dubois, N. Levy. *Une ligne de produits corrects par construction*, AFADL 2017, June 2017, 7 pages, Montpellier, France,

[PDL16] T. Pham, C. Dubois, N. Levy, *Vers un développement formel non incrémental*. AFADL 2016, pp 106-113, Juin 2016, Besan, France.

[DER15] C. Dubois, S. Elloumi, B. Robillard, C. Vincent. *Graphes et couplages en Coq*, Journées Francophones des langages applicatifs (JFLA), January 2015, pp.235-248, Val d'Ajol, France

[DG13] C. Dubois, A. Gotlieb . *Solveurs CP(FD) vérifiés formellement*, Neuvièmes Journées Francophones de Programmation par Contraintes (JFPC 2013), June 2013, pp.115-118, Aix-en-Provence

[DDT13] D. Delahaye, C. Dubois, P.-N. Tollitte. *Synthèse de code à partir de spécifications inductives : RelExt*. AFADL 2013, Avril 2013, Nancy.

[SDG12] D. Sadoun, C. Dubois, Y. Ghamri-Doudane, B. Grau. *Formalisation en OWL pour vérifier les spécifications d'un environnement intelligent*. RFIA, Janvier 2012, Lyon.

[DDT10] D. Delahaye, C. Dubois, P.-N. Tollitte. *Génération de code fonctionnel certifié à partir de spécifications inductives dans l'environnement Focalize*. JFLA'10, Journées Francophones des Langages Applicatifs, La Ciotat, Janvier 2010.

[CDH09] M. Carlier, C. Dubois, L. Habib, M. Jaume. *Politique de contrôle d'accès multi-niveaux : test de conformité vis à vis des flots avec l'outil FoCaL*. AFADL'09 Approches formelles dans l'assistance au développement des Logiciels, Toulouse, Janvier 2009.

[ACD08] P. Ayrault, D. Delahaye, C. Dubois, D. Doligez, L. Habib, T. Hardin, M. Jaume, C. Morisset, F. Pessaux, P. Weis. *Trusted Software within FoCaL*. CE&SAR 2008, Rennes, décembre 2008, pp.142-157

## Conférences internationales avec sélection sur résumé

[CAD14] R. Cauderlier, A. Assaf and C. Dubois. *Objects and subtyping in the lambda-Pi-calculus modulo*, Types 2014 Workshop, Paris, may 2014.

## Posters et sessions outils

[TDD12a] P.-N. Tollitte, D. Delahaye, C. Dubois. *Génération de code fonctionnel à partir de spécifications inductives dans Coq*. Poster, Journées nationales du GDR GPL, Rennes, 2012.

[BDDJ12] K. Berkani, D. Delahaye, C. Dubois, M. Jacquél. *Un environnement pour la vérification des règles ajoutées de l'Atelier B*. Poster, Journées nationales du GDR GPL, Rennes, 2012.

[BDD12] K. Berkani, D. Delahaye, C. Dubois, M. Jacquél, M. Keogh, E. Le Lay. *BCARe : un environnement pour la vérification de règles de l'Atelier B*, AFADL 2012, Session Présentation d'outils, January 2012, Grenoble, France.

[SDGB11] D. Sadoun, C. Dubois, Y. Ghamri-Doudane, B. Grau, *An ontology for the conceptualization of an intelligent environment and its operation*. 10th Mexican International Conference on Artificial Intelligence (MICAI 2011). Puebla, Mexico

## Conférences invitées

C. Dubois, *Modularity in proof checking*, Workshop on Modular Knowledge (Tetrapod) 2018, FLoC 2018 workshop, Oxford, United Kingdom, juillet 2018.

C. Dubois, *Programming and proving with FoCaLiZe: a tour from computer algebra to interoperability applications*. Off the Beaten Track 2018, with POPL 2018. Los Angeles, California, USA. Janvier 2018.

[CDG13] M. Carlier, C. Dubois, A. Gotlieb, *Vers les outils de test formellement vérifiés, de la génération de tests à la résolution de contraintes*, session du groupe de travail MTV2, journées nationales du GDR GPL, Nancy, avril 2013.

[Dub13] C. Dubois, *A Certified Constraint Solver over Finite Domains*, abstract of Dagstuhl Seminars, Dagstuhl Seminar 13021 Symbolic Methods in Testing, January 2013.