

Ouvrage

C. Dubois, V. Ménéssier-Morain, *Apprentissage de la programmation avec OCaml*, Hermès, 2004.

Activité éditoriale

C. Dubois, J. Cohen, STAF 2022 Workshop Proceedings: 10th International Workshop on Bidirectional Transformations (BX 2022), 2nd International Workshop on Foundations and Practice of Visual Modeling (FPVM 2022) and 2nd International Workshop on MDE for Smart IoT Systems (MeSS 2022) (co-located with Software Technologies: Applications and Foundations federation of conferences (STAF 2022)), Nantes, France, July 5-8, 2022. CEUR Workshop Proceedings 3250, CEUR-WS.org 2022.

C. Dubois, S. Zschaler, 17th Educators Symposium at MODELS 2021, October 2021.

C. Dubois, B. Wolff. Tests and Proofs - 12th International Conference, TAP@STAF 2018, Toulouse, France, June 27-29, 2018, Proceedings. Lecture Notes in Computer Science 10889, Springer 2018

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 2199, CEUR-WS.org 2018

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

C. Dubois, P. Masci, D. Méry. Proceedings Third International Workshop on Formal Integrated Development Environment, *F-IDE 2016*, affiliated to FM 2016, Limassol, Cyprus, November 2016, EPTCS 240, 2017.

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

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

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

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,

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.

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

C. Dubois, Actes des 11èmes Journées Francophones des Langages Applicatifs, INRIA, 2000.

Revue internationale (avec comité de lecture)

[DG18] C. Dubois, A. Giorgetti. *Tests and proofs for custom data generators*. Formal Aspects Comput. 30(6): 659-684 (2018).

[JBDD15] 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, and C. Dubois. *Tableaux Modulo Theories using Superdeduction*. Global Journal of Advanced Software Engineering (GJASE), 1:1—13, December 2014.

[DM07] C. Dubois, J.-M. Mota. *Geometric modeling with B: formal specification of generalized maps*. in SPC - International journal of Scientific and Practical Computing, vol. 1(2), pp. 9-24, 2007.

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[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).

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[CD17] R. Cauderlier, C. Dubois: *FoCaLiZe and Dedukti to the Rescue for Proof Interoperability*. ITP 2017, LNCS 10499, Springer 2017, pages 131-147, Brasília, Brazil, September 26-29, 2017,

[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-

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[SDGG14] 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)

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[SDGG13] 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.

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[ABDP12] 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.

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- [JBDD11] 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.
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- [DM06] C. Dubois, J.-M. Mota. *A formally verified geometric modelling core*. In SERP '2006 - International Conference on Software Engineering Research and Practice, Las Vegas, USA., pp. 643-649, 2006.
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[DRW95] C. Dubois, F. Rouaix, P. Weis, *Extensional Polymorphism*, Proceedings of the 22th ACM Conference on Principles of Programming Languages, San Francisco, POPL'95, janvier 1995.

[DDFJ87] V. Donzeau-Gouge, C. Dubois, P. Facon, F. Jean, *Development of a programming environment for Setl*, ESEC, Strasbourg 1987

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[MLD22] M. Montin, A. Ledein and C. Dubois). *LIBNDT: Towards a formal library on spreadable properties over linked nested datatypes*. Ninth Workshop on Mathematically Structured Functional Programming (MSFP 2022), ETAPS Workshop, April 2022, EPTCS proceedings. Munich, Germany.

[Dub20] C. Dubois. Formally Verified Transformation of Non-binary Constraints into Binary Constraints. *Functional and Constraint Logic Programming - 28th International Workshop, WFLP 2020, Bologna, Italy, September 7, 2020, Revised Selected Papers*, LNCS vol. 12560 117–128, 2020.

[DPB19] C. Dubois, V. Prevosto, G. Burel. *Teaching Formal Methods to Future Engineers*. FMTea 2019: 69-80

[DW18] C. Dubois, S. Weppe. *Towards Coq Formalisation of log Set Constraints Resolution*. SETS@ABZ 2018: 32-37

[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.

[DFGN13] 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.

[ABD00] M. Aiguier, D. Bahrami, C. Dubois, *Axioms for Rewriting Theory*, Workshop RULE 2000 : First International Workshop on Rule-Based Programming, PLI 2000,

Montreal, Canada, 2000. disponible à <http://www.loria.fr/~ckirchne/rule2000/>

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[GDL19] A. Giorgetti, C. Dubois, R. Lazarini. Combinatoire formelle avec Why3 et Coq. Journées Francophones des Langages Applicatifs JFLA 2019. hal-01985195.

[PDL17] T.-K.-D. Pham, C. Dubois, N. Levy, *Une ligne de produits corrects par construction*, AFADL 2017, Montpellier 2017.

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[DERV15] 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

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

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- [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.
- [CDHJ09] 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.
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- [MD06] J-M. Mota, C. Dubois, *Raffinement de données en B évènementiel pour des algorithmes géométriques*, AFADL 2006, mars 2006, Paris.
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- [BDD92] K. Barkaoui, T. Demarche, C. Dubois, *Modélisation et validation statique du multitâche en Ada par la théorie des réseaux de Pétri*, 2ème Conférence maghrébine de Génie Logiciel et d'Intelligence Artificielle, Tunis, avril 1992.
- [DDF91] V. Donzeau-Gouge, C. Dubois, P. Facon, *Inférence de types et d'implantations pour les langages ensemblistes*, Journées Francophones des Langages Applicatifs, Gresse-en-Vercors, France, janvier 91, Bigre numéro 72.

Posters et sessions outils

C. Dubois, M. Jaume, O. Pons et V. Prevosto. *L'atelier Focal*. In AFADL, session outils, Besançon; 2004.

O. Boite, C. Dubois, *Proving Type Soundness of a Simply Typed ML-like Language with References*, TPHOLs 2001, Category Work in progress, in the supplemental proceedings, Edinburgh, 2001.

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P. Facon, N. Hadj-Rabia, C. Dubois, Q. Nguyen, *The Centaur-VDM environment*. Formal Methods Europe'93, tools presentation, Odense, Danemark, avril 93.

Conférences invitées

C. Dubois. *Formally Verified Constraints Solvers: a Guided Tour*, CICM 2020, July 2020.

C. Dubois, *Programming and proving with FoCaLiZe: from computer algebra to proofs interoperability* OBT 2018 - Los Angeles, USA.

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.

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

C. Dubois, *Transformer pour réutiliser les spécifications et les preuves*, JFLA 2006, Pauillac, 2006.

C. Dubois, *Test et langages fonctionnels*, exposé introductif à la table ronde 'La place et la pratique du test dans les langages fonctionnels', JFLA 2004, Sainte-Marie-de-Ré.

Conférences et workshops internationaux avec sélection sur résumé

C. Dubois, A. Giorgetti, N. Magaud, *Closable and uniquely closable skeletons of untyped lambda terms, formally*, CLA 2023, Paris-Saclay (France).

C. Dubois, A. Giorgetti, *Lambda terms and maps, formally (II)*. CLA 2018, Paris (France).

A. Assaf, G. Burel, R. Cauderlier, D. Delahaye, G. Dowek, C. Dubois, F. Gilbert, P. Halmagrand, O. Hermant, R. Saillard, Expressing theories in the $\lambda\Pi$ -*calcul modulo théorie* and in the Dedukti system, TYPES: Types for Proofs and Programs, May 2016, Novi SA, Serbia.

C. Dubois, A. Giorgetti, N. Zeiberger. Lambda terms and maps, formally. CLA 2015, Lyon (France).

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

C. Dubois, D. Delahaye, *Functional Extraction of Inductive Predicates*, Types Workshop, Nottingham, avril 2006.

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C. Dubois, M. Jaume, *Reuse of formal developments: some experiments within Coq*, Coq users' group, Formal Methods'99, Toulouse, France, septembre 1999.

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D. Bert, C. Dubois, D. Delahaye, J-F. Etienne, V. Viguié Donzeau Gouge, *Formal Models for Edemoui*, Projet EDEMOI - Deliverable 4, septembre 2006.

M. Jaume, C. Dubois, *Formalisation of General Logics in the Calculus of Constructions: Towards an Abstract Development to Assist Formal Specification*, Rapport de recherche de l'Université d'Evry Val d'Essonne numéro 27-1999, Octobre 1999.

C. Dubois, P. Weis, *Generic Polymorphism*, rapport de recherche de l'Université d'Evry Val d'Essonne, mars 1994

C. Dubois, F. Henglein. *A First-Order Axiomatization of Parametric Polymorphism and Dynamic Overloading and its Typol Specification*. SETL Newsletter New York University, No 224, May 1988.