

- `baarir.04.mascots` [1] Souheib Baair, Jean-Michel Ilié, and Alexandre Duret-Lutz. Improving reachability analysis for partially symmetric high level petri nets. In *Proceedings of the Poster Session of the 12th IEEE/ACM International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS'04)*, pages 5–8, Volendam, The Netherlands, October 2004.
- `baarir.06.tr03` [2] Souheib Baair and Alexandre Duret-Lutz. Emptiness check of powerset Büchi automata. Technical report 2006/003, Université Pierre et Marie Curie, LIP6-CNRS, Paris, France, October 2006.
- `baarir.07.acsd` [3] Souheib Baair and Alexandre Duret-Lutz. Emptiness check of powerset Büchi automata. In *Proceedings of the 7th International Conference on Application of Concurrency to System Design (ACSD'07)*, pages 41–50. IEEE Computer Society, July 2007.
- `baarir.07.msr` [4] Souheib Baair and Alexandre Duret-Lutz. Test de vacuité pour automates de Büchi ensemblistes avec tests d'inclusion. In *Actes du 6e Colloque Francophone sur la Modélisation des Systèmes Réactifs (MSR'07)*, pages 19–34. Hermes-Lavoisier, October 2007.
- `baarir.14.forte` [5] Souheib Baair and Alexandre Duret-Lutz. Mechanizing the minimization of deterministic generalized Büchi automata. In *Proceedings of the 34th IFIP International Conference on Formal Techniques for Distributed Objects, Components and Systems (FORTE'14)*, volume 8461 of *Lecture Notes in Computer Science*, pages 266–283. Springer, June 2014.
- `baarir.15.lpar` [6] Souheib Baair and Alexandre Duret-Lutz. SAT-based minimization of deterministic ω -automata. In *Proceedings of the 20th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning (LPAR-20)*, volume 9450 of *Lecture Notes in Computer Science*, pages 79–87. Springer, November 2015.
- `babiak.13.spin` [7] Tomáš Babiak, Thomas Badie, Alexandre Duret-Lutz, Mojmír Křetínský, and Jan Strejček. Compositional approach to suspension and other improvements to LTL translation. In *Proceedings of the 20th International SPIN Symposium on Model Checking of Software (SPIN'13)*, volume 7976 of *Lecture Notes in Computer Science*, pages 81–98. Springer, July 2013.
- `babiak.15.cav` [8] Tomáš Babiak, František Blahoudek, Alexandre Duret-Lutz, Joachim Klein, Jan Křetínský, David Müller, David Parker, and Jan Strejček. The Hanoi Omega-Automata format. In *Proceedings of the 27th International Conference on Computer Aided Verification (CAV'15)*, volume 9206 of *Lecture Notes in Computer Science*, pages 479–486. Springer, July 2015.
- `baier.19.atva` [9] Christel Baier, František Blahoudek, Alexandre Duret-Lutz, Joachim Klein, David Müller, and Jan Strejček. Generic emptiness check for fun and profit. In *Proceedings of the 17th International Symposium on Automated Technology for Verification and Analysis (ATVA'19)*, volume 11781 of *Lecture Notes in Computer Science*, pages 445–461. Springer, October 2019.
- `barnat.18.hpcr` [10] Jiri Barnat, Vincent Bloemen, Alexandre Duret-Lutz, Alfons Laarman, Laure Petrucci, Jaco van de Pol, and Etienne Renault. Parallel model checking algorithms for linear-time temporal logic. In Youssef Hamadi and Lakhdar Sais, editors, *Handbook of Parallel Constraint Reasoning*, chapter 12, pages 457–507. Springer International Publishing, Cham, 2018.
- `bensalem.11.sumo` [11] Ala Eddine Ben Salem, Alexandre Duret-Lutz, and Fabrice Kordon. Generalized Büchi automata versus testing automata for model checking. In *Proceedings of the second International Workshop on Scalable and Usable Model Checking for Petri Net and other models of Concurrency (SUMO'11)*, volume 726 of *Workshop Proceedings*, Newcastle, UK, June 2011. CEUR.
- `bensalem.12.topnoc` [12] Ala Eddine Ben Salem, Alexandre Duret-Lutz, and Fabrice Kordon. Model checking using generalized testing automata. *Transactions on Petri Nets and Other Models of Concurrency (ToPNoC VI)*, 7400:94–112, 2012.
- `bensalem.14.tacas` [13] Ala Eddine Ben Salem, Alexandre Duret-Lutz, Fabrice Kordon, and Yann Thierry-Mieg. Symbolic model checking of stutter invariant properties using generalized testing automata. In *Proceedings of the 20th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS'14)*, volume 8413 of *Lecture Notes in Computer Science*, 442:154–170, February 2014. Springer, 2014.

- blahoudek.14.spin [14] František Blahoudek, Alexandre Duret-Lutz, Mojmír Křetínský, and Jan Strejček. Is there a best Büchi automaton for explicit model checking? In *Proceedings of the 21th International SPIN Symposium on Model Checking of Software (SPIN'14)*, pages 68–76. ACM, July 2014.
- blahoudek.15.spin [15] František Blahoudek, Alexandre Duret-Lutz, Vojtěch Rujbr, and Jan Strejček. On refinement of Büchi automata for explicit model checking. In *Proceedings of the 22th International SPIN Symposium on Model Checking of Software (SPIN'15)*, volume 9232 of *Lecture Notes in Computer Science*, pages 66–83. Springer, August 2015.
- blahoudek.17.lpar [16] František Blahoudek, Alexandre Duret-Lutz, Mikuláš Klokočka, Mojmír Křetínský, and Jan Strejček. Seminarator: A tool for semi-determinization of omega-automata. In Thomas Eiter, David Sands, and Geoff Sutcliffe, editors, *Proceedings of the 21th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning (LPAR-21)*, volume 46 of *EPiC Series in Computing*, pages 356–367. EasyChair Publications, May 2017.
- blahoudek.20.cav [17] František Blahoudek, Alexandre Duret-Lutz, and Jan Strejček. Seminarator 2 can complement generalized Büchi automata via improved semi-determinization. In *Proceedings of the 32nd International Conference on Computer-Aided Verification (CAV'20)*, volume 12225 of *Lecture Notes in Computer Science*, pages 15–27. Springer, July 2020.
- bloemen.17.spin [18] Vincent Bloemen, Alexandre Duret-Lutz, and Jaco van de Pol. Explicit state model checking with generalized Büchi and Rabin automata. In *Proceedings of the 24th International SPIN Symposium on Model Checking of Software (SPIN'17)*, pages 50–59. ACM, July 2017.
- bloemen.19.sttt [19] Vincent Bloemen, Alexandre Duret-Lutz, and Jaco van de Pol. Model checking with generalized Rabin and Fin-less automata. *International Journal on Software Tools for Technology Transfer*, 21(3):307–324, June 2019.
- burrus.03.mpool [20] Nicolas Burrus, Alexandre Duret-Lutz, Thierry Géraud, David Lesage, and Raphaël Poss. A static C++ object-oriented programming (scoop) paradigm mixing benefits of traditional oop and generic programming. In *Proceedings of the Workshop on Multiple Paradigm with OO Languages (MPOOL'03)*, Anaheim, California, October 2003.
- casares.22.tacas [21] Antonio Casares, Alexandre Duret-Lutz, Klara J. Meyer, Florian Renkin, and Salomon Sickert. Practical applications of the Alternating Cycle Decomposition. In *Proceedings of the 28th International Conference on Tools and Algorithms for the Construction and Analysis of Systems*, volume 13244 of *Lecture Notes in Computer Science*, pages 99–117, April 2022.
- clouard.99.tr [22] Régis Clouard, Abderrahim Elmoataz, François Angot, Olivier Lezoray, and Alexandre Duret-Lutz. Une bibliothèque et un environnement de programmation d'opérateurs de traitement d'images. Technical Report 99008, GREYC-ISMRA, Caen, France, November 1999.
- couvreur.05.spin [23] Jean-Michel Couvreur, Alexandre Duret-Lutz, and Denis Poitrenaud. On-the-fly emptiness checks for generalized Büchi automata. In Patrice Godefroid, editor, *Proceedings of the 12th International SPIN Workshop on Model Checking of Software*, volume 3639 of *Lecture Notes in Computer Science*, pages 143–158. Springer, August 2005.
- darbon.02.ismm [24] Jérôme Darbon, Thierry Géraud, and Alexandre Duret-Lutz. Generic implementation of morphological image operators. In *Mathematical Morphology, Proceedings of the 6th International Symposium (ISMM)*, pages 175–184, Sydney, Australia, April 2002. Sciro Publishing.
- demaille.08.fsmnlp [25] Akim Demaille, Alexandre Duret-Lutz, Florian Lesaint, Sylvain Lombardy, Jacques Sakarovitch, and Florent Terrones. An XML format proposal for the description of weighted automata, transducers, and regular expressions. In *Proceedings of the seventh international workshop on Finite-State Methods and Natural Language Processing (FSMNLP'08)*, Ispra, Italia, September 2008.
- demaille.13.ciaa [26] Akim Demaille, Alexandre Duret-Lutz, Sylvain Lombardy, and Jacques Sakarovitch. Implementation concepts in Vaucanson 2. In Oscar H. Ibarra and Zhe Dang, editors, *Proceedings of Implementation and Application of Automata, 18th International Conference (CIAA'13)*, volume 2759 of *Lecture Notes in Computer Science*, pages 96–107, Santa Barbara, CA, USA, July 2013. Springer.
- demaille.14.ciaa [27] Akim Demaille, Alexandre Duret-Lutz, Sylvain Lombardy, Luca Saiu, and Jacques Sakarovitch. A type system for weighted automata and rational expressions. In *Proceedings of Implementation and Application of Automata, 19th International Conference (CIAA'14)*, Giessen, Germany, July 2014.
- duret.00.gcseyrw [28] Alexandre Duret-Lutz. Olena: a component-based platform for image processing, mixing generic, generative and OO programming. In *Proceedings of 2nd International Symposium on*

- `duret.00.tr01` [29] Alexandre Duret-Lutz and Thierry Géraud. Improving object-oriented generic programming. Technical Report 0001, EPITA Research and Development Laboratory, Paris, April 2000.
- `duret.01.ae` [30] Alexandre Duret-Lutz. Expression templates in Ada. In *Proceedings of the 6th International Conference on Reliable Software Technologies (Ada-Europe'01)*, volume 2043 of *Lecture Notes in Computer Science*, pages 191–202, Leuven, Belgium, May 2001. Springer-Verlag. Best paper award.
- `duret.01.coots` [31] Alexandre Duret-Lutz, Thierry Géraud, and Akim Demaille. Design patterns for generic programming in C++. In *Proceedings of the 6th USENIX Conference on Object-Oriented Technologies and Systems (COOTS'01)*, pages 189–202, San Antonio, Texas, USA, January 2001. USENIX Association.
- `duret.03.msc` [32] Alexandre Duret-Lutz and Rachid Rebiha. Spot : une bibliothèque de vérification de propriétés de logique temporelle à temps linéaire. Master's thesis, DEA Systèmes Informatiques Répartis, Université de Paris 6, September 2003.
- `duret.04.mascots` [33] Alexandre Duret-Lutz and Denis Poitrenaud. Spot: an extensible model checking library using transition-based generalized Büchi automata. In *Proceedings of the 12th IEEE/ACM International Symposium on Modeling, Analysis, and Simulation of Computer and Telecommunication Systems (MASCOTS'04)*, pages 76–83, Volendam, The Netherlands, October 2004. IEEE Computer Society.
- `duret.07.phd` [34] Alexandre Duret-Lutz. *Contributions à l'approche automate pour la vérification de propriétés de systèmes concurrents*. PhD thesis, Université Pierre et Marie Curie (Paris 6), July 2007.
- `duret.09.atva` [35] Alexandre Duret-Lutz, Denis Poitrenaud, and Jean-Michel Couvreur. On-the-fly emptiness check of transition-based Streett automata. In Zhiming Liu and Anders P. Ravn, editors, *Proceedings of the 7th International Symposium on Automated Technology for Verification and Analysis (ATVA'09)*, volume 5799 of *Lecture Notes in Computer Science*, pages 213–227. Springer, 2009.
- `duret.11.arxiv` [36] Alexandre Duret-Lutz, Kais Klai, Denis Poitrenaud, and Yann Thierry-Mieg. Combining explicit and symbolic approaches for better on-the-fly LTL model checking. Technical Report 1106.5700, arXiv, June 2011. Extended version of our ATVA'11 paper, presenting two new techniques instead of one.
- `duret.11.atva` [37] Alexandre Duret-Lutz, Kais Klai, Denis Poitrenaud, and Yann Thierry-Mieg. Self-loop aggregation product — a new hybrid approach to on-the-fly LTL model checking. In *Proceedings of the 9th International Symposium on Automated Technology for Verification and Analysis (ATVA'11)*, volume 6996 of *Lecture Notes in Computer Science*, pages 336–350, Taipei, Taiwan, October 2011. Springer.
- `duret.11.sumo` [38] Alexandre Duret-Lutz. Building LTL model checkers using Transition-based Generalized Büchi Automata. Invited talk to SUMo'11, June 2011.
- `duret.11.vecos` [39] Alexandre Duret-Lutz. LTL translation improvements in Spot. In *Proceedings of the 5th International Workshop on Verification and Evaluation of Computer and Communication Systems (VECoS'11)*, Electronic Workshops in Computing, Tunis, Tunisia, September 2011. British Computer Society.
- `duret.12.ciaa` [40] Alexandre Duret-Lutz. The Spot library, and its online translator from LTL (and PSL) to Büchi automata. Distributed in the CIAA'12 conference booklet, not in the main proceedings, July 2012. Two-page flyer for the software demo session.
- `duret.13.atva` [41] Alexandre Duret-Lutz. Manipulating LTL formulas using Spot 1.0. In *Proceedings of the 11th International Symposium on Automated Technology for Verification and Analysis (ATVA'13)*, volume 8172 of *Lecture Notes in Computer Science*, pages 442–445, Hanoi, Vietnam, October 2013. Springer.
- `duret.14.ijccbs` [42] Alexandre Duret-Lutz. LTL translation improvements in Spot 1.0. *International Journal on Critical Computer-Based Systems*, 5(1/2):31–54, March 2014.
- `duret.16.atva` [43] Alexandre Duret-Lutz, Fabrice Kordon, Denis Poitrenaud, and Etienne Renault. Heuristics for checking liveness properties with partial order reductions. In *Proceedings of the 14th International Symposium on Automated Technology for Verification and Analysis (ATVA'16)*, volume 9938 of *Lecture Notes in Computer Science*, pages 340–356. Springer, October 2016.

- `duret.16.atva2` [44] Alexandre Duret-Lutz, Alexandre Lewkowicz, Amaury Fauchille, Thibaud Michaud, Etienne Renault, and Laurent Xu. Spot 2.0 — a framework for LTL and ω -automata manipulation. In *Proceedings of the 14th International Symposium on Automated Technology for Verification and Analysis (ATVA'16)*, volume 9938 of *Lecture Notes in Computer Science*, pages 122–129. Springer, October 2016.
- `duret.17.hdr` [45] Alexandre Duret-Lutz. *Contributions to LTL and ω -Automata for Model Checking*. Habilitation thesis, Université Pierre et Marie Curie (Paris 6), February 2017.
- `duret.22.cav` [46] Alexandre Duret-Lutz, Etienne Renault, Maximilien Colange, Florian Renkin, Alexandre Gbaguidi Aisse, Philipp Schlehuber-Caissier, Thomas Medioni, Antoine Martin, Jérôme Dubois, Clément Gillard, and Henrich Lauko. From Spot 2.0 to Spot 2.10: What's new? In *Proceedings of the 34th International Conference on Computer Aided Verification (CAV'22)*, volume 13372 of *Lecture Notes in Computer Science*, pages 174–187. Springer, August 2022.
- `duret.25.pn` [47] Alexandre Duret-Lutz, Denis Poitrenaud, and Yann Thierry-Mieg. Simplifying LTL model checking given prior knowledge. In *Proceedings of the 46th International Conference on Application and Theory of Petri Nets and Concurrency (PetriNet'25)*, volume ??? of *Lecture Note in Computer Science*, pages ???–??? Springer, June 2025. To appear.
- `duret.99.tr03` [48] Alexandre Duret-Lutz and Thierry Géraud. Patrons de conception statiques pour la programmation générique en C++. Technical Report 9903, EPITA Research and Development Laboratory, Paris, September 1999.
- `fronc.13.atva` [49] Lukasz Fronc and Alexandre Duret-Lutz. LTL model checking with Neco. In *Proceedings of the 11th International Symposium on Automated Technology for Verification and Analysis (ATVA'13)*, volume 8172 of *Lecture Notes in Computer Science*, pages 451–454, Hanoi, Vietnam, October 2013. Springer.
- `geraud.00.europlop` [50] Thierry Géraud and Alexandre Duret-Lutz. Generic programming redesign of patterns. In M. Devos and A. Rüping, editors, *Proceedings of the 5th European Conference on Pattern Languages of Programs (EuroPLoP'00)*. UVK, Univ. Verlag, Konstanz, July 2000.
- `geraud.00.icpr` [51] Thierry Géraud, Yoann Fabre, Alexandre Duret-Lutz, Dimitri Papadopoulos-Orfanos, and Jean-François Mangin. Obtaining genericity for image processing and pattern recognition algorithms. In *Proceedings of the 15th International Conference on Pattern Recognition (ICPR'00)*, volume 4, pages 816–819, Barcelona, Spain, September 2000. IEEE Computer Society.
- `geraud.01.ai` [52] Thierry Géraud, Yoann Fabre, and Alexandre Duret-Lutz. Applying generic programming to image processing. In M.H. Hamsa, editor, *Proceedings of the IASTED International Conference on Applied Informatics (AI'01)—Symposium Advances in Computer Applications*, pages 577–581, Innsbruck, Austria, February 2001. ACTA Press.
- `geraud.99.tr01` [53] Thierry Géraud and Alexandre Duret-Lutz. Composants génériques de calcul scientifique. Technical Report 9901, EPITA Research and Development Laboratory, Paris, March 1999.
- `german.07.cae` [54] Daniel M. German, Lloyd Burchill, Alexandre Duret-Lutz, Sébastien Pérez-Duarte, Emmanuel Pérez-Duarte, and Josh Sommers. Flattening the viewable sphere. In *Proceedings of the Third Eurographics Conference on Computational Aesthetics in Graphics, Visualization and Imaging (CAe'07)*, pages 23–28. Eurographics Association, 2007. Artistic Submission.
- `jacobs.22.arxiv` [55] Swen Jacobs, Guillermo Alberto Perez, Remco Abraham, Véronique Bruyère, Michaël Cadilhac, Maximilien Colange, Charly Delfosse, Tom van Dijk, Alexandre Duret-Lutz, Peter Faymonville, Bernd Finkbeiner, Ayrat Khalimov, Felix Klein, Michael Luttenberger, Klara J. Meyer, Thibaud Michaud, Adrien Pommellet, Florian Renkin, Philipp Schlehuber-Caissier, Mouhammad Sakr, Salomon Sickert, Gaëtan Staquet, Clément Tamines, Leander Tentrup, and Adam Walker. The reactive synthesis competition (SYNTCOMP): 2018–2021. Technical report, 2022.
- `martin.24.ciaa` [56] Antoine Martin, Etienne Renault, and Alexandre Duret-Lutz. Translation of semi-extended regular expressions using derivatives. In Szilárd Zsolt Fazekas, editor, *Proceedings of the 28th International Conference on Implementation and Applications of Automata (CIAA'24)*, volume 15015 of *Lecture Notes in Computer Science*, pages 234–248. Springer Nature, September 2024. Best paper award.
- `michaud.15.spin` [57] Thibaud Michaud and Alexandre Duret-Lutz. Practical stutter-invariance checks for ω -regular languages. In *Proceedings of the 22th International SPIN Symposium on Model Checking*

- renault.13.lpar [58] Etienne Renault, Alexandre Duret-Lutz, Fabrice Kordon, and Denis Poitrenaud. Three SCC-based emptiness checks for generalized Büchi automata. In Ken McMillan, Aart Middeldorp, and Andrei Voronkov, editors, *Proceedings of the 19th International Conference on Logic for Programming, Artificial Intelligence, and Reasoning (LPAR-19)*, volume 8312 of *Lecture Notes in Computer Science*, pages 668–682. Springer, December 2013.
- renault.13.tacas [59] Etienne Renault, Alexandre Duret-Lutz, Fabrice Kordon, and Denis Poitrenaud. Strength-based decomposition of the property Büchi automaton for faster model checking. In Nir Piterman and Scott A. Smolka, editors, *Proceedings of the 19th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS'13)*, volume 7795 of *Lecture Notes in Computer Science*, pages 580–593. Springer, March 2013.
- renault.15.tacas [60] Etienne Renault, Alexandre Duret-Lutz, Fabrice Kordon, and Denis Poitrenaud. Parallel explicit model checking for generalized Büchi automata. In Christel Baier and Cesare Tinelli, editors, *Proceedings of the 19th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS'15)*, volume 9035 of *Lecture Notes in Computer Science*, pages 613–627. Springer, April 2015.
- renault.16.sttt [61] Etienne Renault, Alexandre Duret-Lutz, Fabrice Kordon, and Denis Poitrenaud. Variations on parallel explicit model checking for generalized Büchi automata. *International Journal on Software Tools for Technology Transfer (STTT)*, 19(6):653–673, November 2017. First published online on 26 April 2016.
- renkin.20.atva [62] Florian Renkin, Alexandre Duret-Lutz, and Adrien Pommellet. Practical “paritizing” of emerson-lei automata. In *Proceedings of the 18th International Symposium on Automated Technology for Verification and Analysis (ATVA '20)*, volume 12302 of *Lecture Notes in Computer Science*, pages 127–143. Springer, October 2020.
- renkin.21.synt [63] Florian Renkin, Philipp Schlehuber, Alexandre Duret-Lutz, and Adrien Pommellet. Improvements to `ltsynt`. Presented at the SYNT'21 workshop, without proceedings., July 2021.
- renkin.22.forte [64] Florian Renkin, Philipp Schlehuber-Caissier, Alexandre Duret-Lutz, and Adrien Pommellet. Effective reductions of Mealy machines. In *Proceedings of the 42nd International Conference on Formal Techniques for Distributed Objects, Components, and Systems (FORTE'22)*, volume 13273 of *Lecture Notes in Computer Science*, pages 170–187. Springer, June 2022.
- renkin.23.fmsd [65] Florian Renkin, Philipp Schlehuber-Caissier, Alexandre Duret-Lutz, and Adrien Pommellet. Dissecting `ltsynt`. *Formal Methods in System Design*, 2023. Available online since 14 July 2023.
- renkin.23.scp [66] Florian Renkin, Philipp Schlehuber-Caissier, Alexandre Duret-Lutz, and Adrien Pommellet. The Mealy-machine reduction functions of Spot. *Science of Computer Programming*, 230(102995), August 2023.
- sakarovitch.12.ciaa [67] Alexandre Duret-Lutz, Sylvain Lombardy, Jacques Sakarovitch, and Hsu-Chun Yen. Vaucanson 1.4.1. Distributed in the CIAA'12 conference booklet, not in the main proceedings, July 2012. Two-page flyer for the software demo session.
- thierry-mieg.04.gl [68] Yann Thierry-Mieg, Souheib Baarir, Alexandre Duret-Lutz, and Fabrice Kordon. Nouvelles techniques de model-checking pour la vérification de systèmes complexes. *Génie Logiciel*, (69):17–23, June 2004.
- tourneur.17.misc [69] Vincent Tourneur and Alexandre Duret-Lutz. Fixes for two equations in *The Blow-Up in Translating LTL to Deterministic Automata* by Kupferman and Rosenberg. Online PDF., February 2017. The original authors have reviewed the fixes and agreed with them.
- xue.03.icip [70] Heru Xue, Thierry Géraud, and Alexandre Duret-Lutz. Multi-band segmentation using morphological clustering and fusion; application to color image segmentation. In *Proceedings of the IEEE International Conference on Image Processing (ICIP 2003)*, Barcelona, Spain, September 2003.