

Publications

Châpitres de livres

- [1] Antonio BUCCIARELLI, Antonio LEDDA, Francesco PAOLI et Antonino SALIBRA. “Boolean-like algebras of finite dimension : from boolean products to semiring products”. In : *Janusz Czelakowski on Logical Consequences*. Sous la direction de J. MALINOWSKI et R. PALCZEWSKI. Outstanding Contributions to Logic. To appear. Springer-Verlag, 2023. URL : <https://arxiv.org/abs/1806.06537>.

Reuves internationales

- [2] Antonio BUCCIARELLI, Delia KESNER, Alejandro RIOS et Andrés VISO. “The Bang Calculus Revisited”. In : *Information and Computation* 293 (2023). URL : <https://www.sciencedirect.com/science/article/pii/S0890540123000500>.
- [3] Antonio BUCCIARELLI et Antonino SALIBRA. “An algebraic theory of clones”. In : *Algebra Universalis* 83.14 (2022). URL : <https://link.springer.com/article/10.1007/s00012-022-00770-9>.
- [4] Antonio BUCCIARELLI, Delia KESNER et Simona RONCHI DELLA ROCCA. “Solvability = Typability + Inhabitation”. In : *Log. Methods Comput. Sci.* 17.1 (2021). URL : <https://lmcs.episciences.org/7141>.
- [5] Antonino SALIBRA, Antonio BUCCIARELLI, Antonio LEDDA et Francesco PAOLI. “Classical Logic with n Truth Values as a Symmetric Many-Valued Logic”. In : *Foundations of Science* (2020). URL : <https://doi.org/10.1007/s10699-020-09697-7>.
- [6] Antonio BUCCIARELLI et Antonino SALIBRA. “On noncommutative generalisations of Boolean algebras”. In : *The Art of Discrete and Applied Mathematics* 2.2 (2019). URL : <https://doi.org/10.26493/2590-9770.1323.ceb>.
- [7] Antonio BUCCIARELLI, Delia KESNER et Simona RONCHI DELLA ROCCA. “Inhabitation for Non-idempotent Intersection Types”. In : *Logical Methods in Computer Science* 14.3 (2018). URL : [https://doi.org/10.23638/LMCS-14\(3:7\)2018](https://doi.org/10.23638/LMCS-14(3:7)2018).
- [8] Antonio BUCCIARELLI, Delia KESNER et Daniel VENTURA. “Non-idempotent intersection types for the Lambda-Calculus”. In : *Logic Journal of the IGPL* 25.4 (2017), pages 431-464. URL : <https://doi.org/10.1093/jigpal/jzx018>.
- [9] Antonio BUCCIARELLI, Alberto CARRARO, Giordano FAVRO et Antonino SALIBRA. “Graph easy sets of mute lambda terms”. In : *Theor. Comput. Sci.* 629 (2016), pages 51-63. URL : <https://doi.org/10.1016/j.tcs.2015.12.024>.

- [10] Antonio BUCCIARELLI, Thomas EHRHARD et Giulio MANZONETTO. “A relational semantics for parallelism and non-determinism in a functional setting”. In : *Ann. Pure Appl. Logic* 163.7 (2012), pages 918-934. URL : <https://doi.org/10.1016/j.apal.2011.09.008>.
- [11] Antonio BUCCIARELLI, Alberto CARRARO, Thomas EHRHARD et Giulio MANZONETTO. “Full Abstraction for the Resource Lambda Calculus with Tests, through Taylor Expansion”. In : *Logical Methods in Computer Science* 8.4 (2012). URL : [https://doi.org/10.2168/LMCS-8\(4:3\)2012](https://doi.org/10.2168/LMCS-8(4:3)2012).
- [12] Antonio BUCCIARELLI et Antonino SALIBRA. “Graph lambda theories”. In : *Mathematical Structures in Computer Science* 18.5 (2008), pages 975-1004. URL : <https://doi.org/10.1017/S0960129508006683>.
- [13] Antonio BUCCIARELLI, Adolfo PIPERNO et Ivano SALVO. “Intersection Types and lambda-Definability”. In : *Mathematical Structures in Computer Science* 13.1 (2003), pages 15-53. URL : <https://doi.org/10.1017/S0960129502003833>.
- [14] Antonio BUCCIARELLI et Pasquale MALACARIA. “Relative definability of boolean functions via hypergraphs”. In : *Theor. Comput. Sci.* 278.1-2 (2002), pages 91-110. URL : [https://doi.org/10.1016/S0304-3975\(00\)00332-7](https://doi.org/10.1016/S0304-3975(00)00332-7).
- [15] Antonio BUCCIARELLI et Thomas EHRHARD. “On phase semantics and denotational semantics : the exponentials”. In : *Ann. Pure Appl. Logic* 109.3 (2001), pages 205-241. URL : [https://doi.org/10.1016/S0168-0072\(00\)00056-7](https://doi.org/10.1016/S0168-0072(00)00056-7).
- [16] Antonio BUCCIARELLI et Thomas EHRHARD. “On Phase Semantics and Denotational Semantics in Multiplicative-Additive Linear Logic”. In : *Ann. Pure Appl. Logic* 102.3 (2000), pages 247-282. URL : [https://doi.org/10.1016/S0168-0072\(99\)00040-8](https://doi.org/10.1016/S0168-0072(99)00040-8).
- [17] Antonio BUCCIARELLI. “Bi-Models : Relational Versus Domain-Theoretic Approaches”. In : *Fundam. Inform.* 32.3-4 (1997), pages 251-266. URL : <https://doi.org/10.3233/FI-1997-323402>.
- [18] Antonio BUCCIARELLI. “Degrees of Parallelism in the Continuous Type Hierarchy”. In : *Theor. Comput. Sci.* 177.1 (1997), pages 59-71. URL : [https://doi.org/10.1016/S0304-3975\(96\)00234-4](https://doi.org/10.1016/S0304-3975(96)00234-4).
- [19] Antonio BUCCIARELLI et Thomas EHRHARD. “Sequentiality in an Extensional Framework”. In : *Inf. Comput.* 110.2 (1994), pages 265-296. URL : <https://doi.org/10.1006/inco.1994.1033>.

- [20] Antonio BUCCIARELLI et Thomas EHRHARD. “A Theory of Sequentiality”. In : *Theor. Comput. Sci.* 113.2 (1993), pages 273-291. URL : [https://doi.org/10.1016/0304-3975\(93\)90005-E](https://doi.org/10.1016/0304-3975(93)90005-E).

Conférences internationales

- [21] Antonio BUCCIARELLI, Delia KESNER, Alejandro RIOS et Andrés VISO. “The Bang Calculus Revisited”. In : *Functional and Logic Programming - 15th International Symposium, FLOPS 2020, Akita, Japan, September 14-16, 2020, Proceedings*. Sous la direction de Keisuke NAKANO et Konstantinos SAGONAS. Tome 12073. Lecture Notes in Computer Science. Springer, 2020, pages 13-32. ISBN : 978-3-030-59024-6. DOI : 10.1007/978-3-030-59025-3. URL : <https://doi.org/10.1007/978-3-030-59025-3>.
- [22] Antonio BUCCIARELLI, Delia KESNER et Daniel VENTURA. “Strong Normalization through Intersection Types and Memory”. In : *Proceedings of the Tenth Workshop on Logical and Semantic Frameworks, with Applications, LSFA 2015, Natal, Brazil, August 31 - September 1, 2015*. Sous la direction de Mario R. F. BENEVIDES et René THIEMANN. Tome 323. Electronic Notes in Theoretical Computer Science. Elsevier, 2015, pages 75-91. URL : <https://doi.org/10.1016/j.entcs.2016.06.006>.
- [23] Antonio BUCCIARELLI, Delia KESNER et Simona RONCHI DELLA ROCCA. “Observability for Pair Pattern Calculi”. In : *13th International Conference on Typed Lambda Calculi and Applications, TLCA 2015, July 1-3, 2015, Warsaw, Poland*. Sous la direction de Thorsten ALTENKIRCH. Tome 38. LIPIcs. Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, 2015, pages 123-137. ISBN : 978-3-939897-87-3. URL : <https://doi.org/10.4230/LIPIcs.TLCA.2015.123>.
- [24] Antonio BUCCIARELLI, Delia KESNER et Simona RONCHI DELLA ROCCA. “The Inhabitation Problem for Non-idempotent Intersection Types”. In : *Theoretical Computer Science - 8th IFIP TC 1/WG 2.2 International Conference, TCS 2014, Rome, Italy, September 1-3, 2014. Proceedings*. Sous la direction de Josep DIAZ, Ivan LANESE et Davide SANGIORGI. Tome 8705. Lecture Notes in Computer Science. Springer, 2014, pages 341-354. ISBN : 978-3-662-44601-0. DOI : 10.1007/978-3-662-44602-7. URL : https://doi.org/10.1007/978-3-662-44602-7_26.
- [25] Antonio BUCCIARELLI, Alberto CARRARO et Antonino SALIBRA. “Minimal lambda-theories by ultraproducts”. In : *Proceedings Seventh Workshop on Logical and Semantic Frameworks, with Applications, LSFA 2012, Rio de Janeiro, Brazil, September 29-30, 2012*. Sous la direction de Delia KESNER et Petrucio VIANA. Tome 113. EPTCS. 2012,

pages 61-76. DOI : 10.4204/EPTCS.113. URL : <https://doi.org/10.4204/EPTCS.113.8>.

- [26] Antonio BUCCIARELLI, Alberto Carraro Thomas EHRHARD et Giulio MANZONETTO. “Full Abstraction for Resource Calculus with Tests”. In : *Computer Science Logic, 25th International Workshop / 20th Annual Conference of the EACSL, CSL 2011, September 12-15, 2011, Bergen, Norway, Proceedings*. Sous la direction de Marc BEZEM. Tome 12. LIPIcs. Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, 2011, pages 97-111. ISBN : 978-3-939897-32-3. URL : <https://doi.org/10.4230/LIPIcs.CSL.2011.97>.
- [27] Antonio BUCCIARELLI, Thomas EHRHARD et Giulio MANZONETTO. “Categorical Models for Simply Typed Resource Calculi”. In : *Proceedings of the 26th Conference on the Mathematical Foundations of Programming Semantics, MFPS 2010, Ottawa, Ontario, Canada, May 6-10, 2010*. Sous la direction de Michael W. MISLOVE et Peter SELINGER. Tome 265. Electronic Notes in Theoretical Computer Science. Elsevier, 2010, pages 213-230. URL : <https://doi.org/10.1016/j.entcs.2010.08.013>.
- [28] Antonio BUCCIARELLI, Thomas EHRHARD et Giulio MANZONETTO. “A Relational Model of a Parallel and Non-deterministic lambda-Calculus”. In : *Logical Foundations of Computer Science, International Symposium, LFCS 2009, Deerfield Beach, FL, USA, January 3-6, 2009. Proceedings*. Sous la direction de Sergei N. ARTĚMOV et Anil NERODE. Tome 5407. Lecture Notes in Computer Science. Springer, 2009, pages 107-121. ISBN : 978-3-540-92686-3. DOI : 10.1007/978-3-540-92687-0. URL : https://doi.org/10.1007/978-3-540-92687-0_8.
- [29] Antonio BUCCIARELLI, Alberto CARRARO, Thomas EHRHARD et Antonino SALIBRA. “On Linear Information Systems”. In : *Proceedings First International Workshop on Linearity, LINEARITY 2009, Coimbra, Portugal, 12th September 2009*. Sous la direction de Mário FLORIDO et Ian MACKIE. Tome 22. EPTCS. 2009, pages 38-48. DOI : 10.4204/EPTCS.22. URL : <https://doi.org/10.4204/EPTCS.22.4>.
- [30] Antonio BUCCIARELLI, Thomas EHRHARD et Giulio MANZONETTO. “Not Enough Points Is Enough”. In : *Computer Science Logic, 21st International Workshop, CSL 2007, 16th Annual Conference of the EACSL, Lausanne, Switzerland, September 11-15, 2007, Proceedings*. Sous la direction de Jacques DUPARC et Thomas A. HENZINGER. Tome 4646. Lecture Notes in Computer Science. Springer, 2007, pages 298-312. ISBN : 978-3-540-74914-1. DOI : 10.1007/978-3-540-74915-8. URL : https://doi.org/10.1007/978-3-540-74915-8_24.

- [31] Antonio BUCCIARELLI et Benjamin LEPERCHEY. “Hypergraphs and Degrees of Parallelism : A Completeness Result”. In : *Foundations of Software Science and Computation Structures, 7th International Conference, FOSSACS 2004, Held as Part of the Joint European Conferences on Theory and Practice of Software, ETAPS 2004, Barcelona, Spain, March 29 - April 2, 2004, Proceedings*. Sous la direction d’Igor WALUKIEWICZ. Tome 2987. Lecture Notes in Computer Science. Springer, 2004, pages 58-71. ISBN : 3-540-21298-1. DOI : 10.1007/b95995. URL : https://doi.org/10.1007/978-3-540-24727-2_6.
- [32] Antonio BUCCIARELLI et Antonino SALIBRA. “The Sensible Graph Theories of Lambda Calculus”. In : *19th IEEE Symposium on Logic in Computer Science (LICS 2004), 14-17 July 2004, Turku, Finland, Proceedings*. IEEE Computer Society, 2004, pages 276-285. ISBN : 0-7695-2192-4. URL : <https://doi.org/10.1109/LICS.2004.1319622>.
- [33] Antonio BUCCIARELLI et Antonino SALIBRA. “The Minimal Graph Model of Lambda Calculus”. In : *Mathematical Foundations of Computer Science 2003, 28th International Symposium, MFCS 2003, Bratislava, Slovakia, August 25-29, 2003, Proceedings*. Sous la direction de Branislav ROVAN et Peter VOJTÁS. Tome 2747. Lecture Notes in Computer Science. Springer, 2003, pages 300-307. ISBN : 3-540-40671-9. DOI : 10.1007/b11836. URL : https://doi.org/10.1007/978-3-540-45138-9_24.
- [34] Antonio BUCCIARELLI, Benjamin LEPERCHEY et Vincent PADOVANI. “Relative Definability and Models of Unary PCF”. In : *Typed Lambda Calculi and Applications, 6th International Conference, TLCA 2003, Valencia, Spain, June 10-12, 2003, Proceedings*. Sous la direction de Martin HOFMANN. Tome 2701. Lecture Notes in Computer Science. Springer, 2003, pages 75-89. ISBN : 3-540-40332-9. DOI : 10.1007/3-540-44904-3. URL : https://doi.org/10.1007/3-540-44904-3_6.
- [35] Antonio BUCCIARELLI, Silvia DE LORENZIS, Adolfo PIPERNO et Ivano SALVO. “Some Computational Properties of Intersection Types”. In : *14th Annual IEEE Symposium on Logic in Computer Science, Trento, Italy, July 2-5, 1999*. IEEE Computer Society, 1999, pages 109-118. ISBN : 0-7695-0158-3. URL : <https://doi.org/10.1109/LICS.1999.782598>.
- [36] Antonio BUCCIARELLI et Ivano SALVO. “Totality, Definability and Boolean Circuits”. In : *Automata, Languages and Programming, 25th International Colloquium, ICALP’98, Aalborg, Denmark, July 13-17, 1998, Proceedings*. Sous la direction de Kim Guldstrand LARSEN, Sven SKYUM et Glynn WINSKEL. Tome 1443. Lecture Notes in Computer Science. Springer, 1998, pages 808-819. ISBN : 3-540-64781-3. DOI : 10.1007/BFb0055035. URL : <https://doi.org/10.1007/BFb0055104>.

- [37] Antonio BUCCIARELLI. “Logical Reconstruction of Bi-domains”. In : *Typed Lambda Calculi and Applications, Third International Conference on Typed Lambda Calculi and Applications, TLCA '97, Nancy, France, April 2-4, 1997, Proceedings*. Sous la direction de Philippe de GROOTE. Tome 1210. Lecture Notes in Computer Science. Springer, 1997, pages 99-111. ISBN : 3-540-62688-3. DOI : 10 . 1007 / 3 - 540 - 62688 - 3. URL : https://doi.org/10.1007/3-540-62688-3_31.
- [38] Antonio BUCCIARELLI. “Another Approach to Sequentiality : Kleene’s Unimonotone Functions”. In : *Mathematical Foundations of Programming Semantics, 9th International Conference, New Orleans, LA, USA, April 7-10, 1993, Proceedings*. Sous la direction de Stephen D. BROOKES et al. Tome 802. Lecture Notes in Computer Science. Springer, 1993, pages 333-358. ISBN : 3-540-58027-1. DOI : 10 . 1007 / 3 - 540 - 58027 - 1. URL : https://doi.org/10.1007/3-540-58027-1_17.
- [39] Antonio BUCCIARELLI et Thomas EHRHARD. “Extensional Embedding of a Strongly Stable Model of PCF”. In : *Automata, Languages and Programming, 18th International Colloquium, ICALP91, Madrid, Spain, July 8-12, 1991, Proceedings*. Sous la direction de Javier Leach ALBERT, Burkhard MONIEN et Mario RODRIGUEZ-ARTALEJO. Tome 510. Lecture Notes in Computer Science. Springer, 1991, pages 35-46. ISBN : 3-540-54233-7. DOI : 10 . 1007 / 3 - 540 - 54233 - 7. URL : https://doi.org/10.1007/3-540-54233-7_123.
- [40] Antonio BUCCIARELLI et Thomas EHRHARD. “Sequentiality and Strong Stability”. In : *Proceedings of the Sixth Annual Symposium on Logic in Computer Science (LICS '91), Amsterdam, The Netherlands, July 15-18, 1991*. IEEE Computer Society, 1991, pages 138-145. ISBN : 0-8186-2230-X. URL : <https://doi.org/10.1109/LICS.1991.151638>.

Conférences nationales et workshops

- [41] Antonio BUCCIARELLI, Raffaele DI DONNA et Lorenzo TORTORA DE FALCO. “Towards injectivity of the coherent model for connected MELL proof-nets”. In : *TLLA 2023 International Workshop on Trends in Linear Logic and Applications*. URL : <https://lipn.univ-paris13.fr/TLLA/2023/>.
- [42] Antonio BUCCIARELLI et Antonino SALIBRA. “Clones and polymorphisms, algebraically (extended abstract)”. In : *Proceedings of the "Incontro di logica" organised by the Italian Association for Logic and its Applications (AILA), Caserta, Italy, Sepember 12-15, 2022*. URL : https://www.ailalogica.it/incontro2022/abstracts/AILA2022_paper_8535.pdf.

- [43] Antonio BUCCIARELLI et Antonino SALIBRA. “Noncommutativity in an algebraic theory of clones (abstract)”. In : *Mini-Symposium on Noncommutative Structures within Order Structures, Semigroups and Universal Algebra 8th European Congress of Mathematics (2021)*. URL : <https://8ecm.si/system/admin/abstracts/pdfs/000/001/305/original/antonino-salibra.pdf?1626161028>.
- [44] Antonio BUCCIARELLI, Alberto CARRARO, Giordano FAVRO et Antonino SALIBRA. “A graph-easy class of mute lambda-terms”. In : *Proceedings of the 15th Italian Conference on Theoretical Computer Science, Perugia, Italy, September 17-19, 2014*. Sous la direction de Stefano BISTARELLI et Andrea FORMISANO. Tome 1231. CEUR Workshop Proceedings. CEUR-WS.org, 2014, pages 59-71. URL : <http://ceur-ws.org/Vol-1231/long4.pdf>.
- [45] Antonio BUCCIARELLI, Delia KESNER et Daniel VENTURA. “A combinatorial argument for termination properties”. In : EBL 2014, XVII Brazilian Logic Conference, Petropolis , 7-11 Avril 2014, Book of Abstracts. 2014.
- [46] Antonio BUCCIARELLI. “Logical relation and lambda-theories”. In : *Third Theory and Formal Methods Workshop*, pages 37-48, Imperial College Press. 1997.
- [47] Antonio BUCCIARELLI et Pasquale MALACARIA. “Relative definability of boolean function via hypergraph”. In : *Twelfth Workshop on Mathematical Foundations of Programming Semantics, Boulder, Colorado, Book of Abstracts*. 1996.

Pré-publications (autres que versions préliminaires d’articles publiés)

- [48] Antonio BUCCIARELLI et Antonino SALIBRA. “Clones, polymorphisms and relations of arity omega”. 2023. URL : <http://arxiv.org/abs/2303.05471>.
- [49] Antonio BUCCIARELLI, Antonio LEDDA, Francesco PAOLI et Antonino SALIBRA. “Sequent calculi of finite dimension”. Soumis. 2022. URL : <http://arxiv.org/abs/2204.00435>.
- [50] Antonio BUCCIARELLI. “Extensional Collapse Situations I : non-termination and unrecoverable errors”. 2011. URL : <http://arxiv.org/abs/1101.4465>.
- [51] Antonio BUCCIARELLI. “Event Structures representing Domains with Coherence”. Rapport de Recherche du Laboratoire d’Informatique de l’ENS Paris, LIENS-95-16. 1995.

Thèses et Mémoires

- [52] Antonio BUCCIARELLI. “Sur la lambda-définissabilité”. Mémoire d’HDR. Université Paris Diderot. 2009. URL : https://www.irif.fr/~buccia/memoire_hdr.pdf.
- [53] Antonio BUCCIARELLI. “Modèles dénotationnels des langages séquentiels”. PhD Thesis. Université Paris 11. 1994.
- [54] Antonio BUCCIARELLI. “Sequential models of PCF : some contribution to the domain-theoretic approach to full abstraction”. PhD Thesis. Università di Pisa. 1993.
- [55] Antonio BUCCIARELLI. “Teoria generalizzata della ricorsività in alcuni modelli del lambda-calcolo”. Tesi di laurea. Università di Pisa. 1987.