

# Clément Aubert

## Publication List

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### Refereed Journals

- Aubert, C.** and Ioana Cristescu (2016). “Contextual equivalences in configuration structures and reversibility”. In: *Journal of Logical and Algebraic Methods in Programming*. ISSN: 2352-2208. DOI: 10.1016/j.jlamp.2016.08.004.
- Aubert, C.** and Thomas Seiller (2016a). “Characterizing co-NL by a group action”. In: *Mathematical Structures in Computer Science* 26 (04), pp. 606–638. ISSN: 1469-8072. DOI: 10.1017/S0960129514000267.
- Aubert, C.** and Thomas Seiller (2016b). “Logarithmic space and permutations”. In: *Information & Computation* 248. Communication at DICE 2013 and LCC 2013, pp. 2–21. ISSN: 0890-5401. DOI: 10.1016/j.ic.2014.01.018.

### Selective Conferences

- Aubert, C.**, Marc Bagnol, and Thomas Seiller (2016). “Unary Resolution: Characterizing Ptime”. In: *Foundations of Software Science and Computation Structures (FOSSACS 2016)*. Vol. 9634. Lecture Notes in Computer Science. Springer, pp. 373–389. DOI: 10.1007/978-3-662-49630-5\_22. Acceptance rate: 27.4%.
- Aubert, C.** and Marc Bagnol (2014). “Unification and Logarithmic Space”. In: *Rewriting and Typed Lambda Calculi (RTA-TLCA 2014)*. Vol. 8650. Lecture Notes in Computer Science. Springer, pp. 77–92. DOI: 10.1007/978-3-319-08918-8\_6. Acceptance rate: 35% (31/87).
- Aubert, C.**, Marc Bagnol, Paolo Pistone, and Thomas Seiller (2014). “Logic Programming and Logarithmic Space”. In: *12th Asian Symposium on Programming Languages and Systems (APLAS 2014)*. Vol. 8858. Lecture Notes in Computer Science. Springer, pp. 39–57. DOI: 10.1007/978-3-319-12736-1\_3.

### Workshops

- Aubert, C.** and Ioana Cristescu (2015). “Reversible Barbed Congruence on Configuration Structures”. In: *8th Interaction and Concurrency Experience (ICE 2015)*. Vol. 189. Electronic Proceedings in Theoretical Computer Science, pp. 68–95. DOI: 10.4204/EPTCS.189.7.
- Aubert, C.** (2011). “Sublogarithmic uniform Boolean proof nets”. In: *Proceedings Second Workshop on Developments in Implicit Computational Complexity*. Ed. by Jean-Yves Marion. Vol. 75. Electronic Proceedings in Theoretical Computer Science, pp. 15–27. DOI: 10.4204/EPTCS.75.2.

### Articles submitted to refereed journals

- Aubert, C.** and Marc Bagnol (2015). “Unification and Logarithmic Space”. In: *Logical Methods in Computer Science, special issue of RTA/TLCA 2014*.

### Theses

- Aubert, C.** (2013). “Linear Logic and Sub-polynomial Classes of Complexity”. PhD thesis. Université Paris 13—Sorbonne Paris Cité. 182 pp. Supervisors: Stefano Guerrini, Virgile Mogbil (UMR CNRS 7030 — Paris 13).
- Aubert, C.** (2010). “Réseaux de preuves booléens sous-logarithmiques”. MA thesis. LIPN: LMFI, Paris VII. 29 pp. Supervisors: Virgile Mogbil, Paulin Jacobé de Naurois (UMR CNRS 7030 — Paris 13).
- Aubert, C.** (2009). “L’élimination des coupures dans la Logique des Domaines Constants”. MA thesis. Paris 1. 29 pp. Supervisor: Jean-Baptiste Joinet (UMR CNRS 7126 — Paris 7).

### Research Report

- Aubert, C.** (2015). *An in-between “implicit” and “explicit” complexity: Automata*. Research Report. 5 pp. Communication at DICE 2015.
- Aubert, C.,** Marc Bagnol, and Thomas Seiller (2015). *Memoization for Unary Logic Programming: Characterizing Ptime*. Research Report RR-8796. INRIA. 28 pp. arXiv: 1501.05104 [cs.LG].