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## Positions

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| sept. 2015 | <b>Associate Professor at Aix-Marseille Université (AMU), in the team <a href="#">Modélisation et Vérification</a> of the <a href="#">Laboratoire d'Informatique Fondamentale de Marseille (LIF)</a></b> |
| 2013       | <b>Post doctoral researcher in the <a href="#">Formal Methods and Verification</a> group, at <a href="#">Université Libre de Bruxelles (ULB)</a>.</b>  |

## Education

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| 2010-2013 | <b>PhD in Computer Science</b> <i>mention Very Honorable</i> , <a href="#">Laboratoire Spécification et Vérification (LSV)</a> , <a href="#">École Normale Supérieure de Cachan (ENS de Cachan)</a> under the supervision of Benedikt Bollig and Paul Gastin, <i>Specification and Verification of Quantitative Properties: Expressions, Logics, and Automata</i><br>Thesis defended on October 24, 2013, at Cachan. Jury members:<br>Benedikt Bollig (Co-advisor), Olivier Carton (Examiner), Manfred Droste (Reviewer), Paul Gastin (Co-advisor), Sylvain Lombardy (Reviewer), Jean-Marc Talbot (Examiner), Jacques Sakarovitch (President) |
| 2006-2010 | <b>Student at ENS de Cachan</b><br>2009-2010 <b>Master's degree (M2) in Computer Science</b> with high distinction, <a href="#">Parisian Master for Research in Computer Science (MPRI)</a><br>2007-2008 <b>Master 1 in Computer Science</b> with high distinction, MPRI<br>2007-2008 <b>Master 1 in Mathematics</b> with high distinction, University Paris VII<br>2006-2007 <b>B.Sc (L3) in Computer Science</b> with high Distinction<br>2006-2007 <b>B.Sc (L3) in Mathematics</b> with distinction  |

## Teaching

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| 2017-2018 | <b>Computer Science Department, Aix-Marseille Université</b><br>Lectures (20h), Tutorials (20h) and Practical Sessions (20h) Networks and communication, Licence 3<br>Lectures (15h) and Tutorials (15h) Knowledge of research in computer science, Licence 2<br>Tutorials (30h) and Practical Sessions (20h) Automata and circuits, Licence 1<br>CAPES Preparation, ESPE |
| 2016-2017 | <b>Computer Science Department, Aix-Marseille Université</b><br>Lectures (20h), Tutorials (20h) and Practical Sessions (20h) Networks and communication, Licence 3<br>Lectures (15h) and Tutorials (15h) Knowledge of research in computer science, Licence 2<br>Practical Sessions (20h) Introduction to computer science and programming, Licence 1                     |
| 2015-2016 | <b>Computer Science Department, Aix-Marseille Université</b><br>Lectures (20h), Tutorials (20h) and Practical Sessions (20h) Networks and communication, Licence 3<br>Lectures (15h) and Tutorials (15h) Knowledge of research in computer science, Licence 2<br>Tutorials (30h) Automata and circuits, Licence 1   |
| 2010-2012 | <b>Assistant in Computer Science Department, ENS de Cachan</b> , 64h per year   |

## Supervision

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| 2017      | <b>Co-supervision of Théodore Lopez</b> , Master 2 internship, LIF                |
| 2016-2019 | <b>Co-supervision of Damien Busatto-Gaston</b> , Master 2 internship and PhD, LIF |
| 2016      | <b>Supervision of Madhur Gupta</b> , Bachelor internship, LIF                     |
| 2015      | <b>Co-supervision of Gabriel Shako Ekanga</b> , Master thesis, ULB                |
| 2014-2015 | <b>Co-supervision of Samuel Dehouck et Ondřej Svoboda</b> , Master thesis, ULB    |

2013      **Co-supervision of Peter Gjøøl Jensen et Jakob Haahr Taankvist** , Erasmus students in Master 1 (october to december 2013), ULB

## Projects

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2017      Member of the PEPS INS2I JCJC SensAS project: *Sensitivity Analysis of Timed Systems*, with Ocan Sankur (IRISA, Rennes)

2016-2020      Member of the [ANR project DeLTA](#): *Défis pour la Logique, les Transducteurs et les Automates*. Consortium: LaBRI (Bordeaux), IRIF (Paris), LIF, CRISAL (Lille)

2016      Member of the project PEPS INS2I SoSI: *Security of Timed Systems with Partial Information: Vulnerability and Robustness*. Consortium: LIF, LSIS (Marseille), IRISA (Rennes)

2016      Member of the project PHC Tournesol VAST: *Verification And Synthesis of Transformations*. Consortium: LIF, ULB (Belgium)

2013-2015      Member of the European project [Casting](#): *Collective Adaptive Systems Synthesis with Non-Zero-Sum Games*. Consortium: LSV (ENS Cachan, CNRS), ULB (Belgium), UMONS (Belgium), Aalborg University (Denmark), RWTH Aachen University (Germany), Seluxit (Denmark, company), Energi Nord (Denmark, company)

2012-2013      Member of the project PHC Procope LeMon: *Learning Monitors for Refactoring Legacy Systems*. Consortium: LIAFA (Paris, CNRS), Lübeck University (Germany), LSV (ENS Cachan, CNRS)

## Collective Tasks

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Co-organization of the CSL conference at AMU in August 2016  
Programme Committee of summer school MOVEP 2016 (Genova)  
Programme Committee of workshop CASSTING 2016 (ETAPS, Eindhoven)  
Co-organization of the annual meeting of GT-ALGA at LIF in April 2016  
Organization of the Seminar MOVE at LIF since October 2015  
Co-organization of the joint conference Petri Nets 2015 and ACSD 2015 at ULB in June 2015  
Help in the organization of the Third Casting Meeting at ULB in May 2014  
Organization of Tempo/Mexico working group in 2012 and 2013  
Organization of PhD Seminar at LSV from 2010 to 2013  
Participation to the group *Outils Informatiques internes du LSV*: development of a database and a web interface for the bibliographic resources of the laboratory  
Representative of first year PhD students at LSV in 2010/2011.

## Conference and Journal refereeing

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DLT 2011, LATA 2011, CONCUR 2012, LATA 2012, ICALP 2012, CIAA 2012, RV 2012, FSTTCS 2012, STACS 2014, LATA 2014, CAV 2014, ICALP 2014, MFCS 2014, CSR 2014, FSTTCS 2014, FORMATS 2015, LICS 2015, SETTA 2015, FSTTCS 2015, FoSSaCS 2016, LATA 2016, STACS 2016, ICALP 2016, CSL 2016, MFCS 2016, DLT 2016, FSTTCS 2016, DLT 2017, FCT 2017, GandALF 2017, FORMATS 2017, ICALP 2017, LICS 2017

Journal of Logic and Algebraic Programming, Formal Methods in System Design, ACM Transactions on Computational Logic, Theoretical Computer Science, Soft Computing, Information and Processing Letters, Journal of Systems and Software

Relecteur pour Mathematical Reviews/MathSciNet de l'American Mathematical Society

## Publications

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### Articles in international journals with reading committee

- [1] Thomas Brihaye, Gilles Geeraerts, Axel Haddad, and Benjamin Monmege. Pseudopolynomial Iterative Algorithm to Solve Total-Payoff Games and Min-Cost Reachability Games. *Acta Informatica*, 54(1):85–125, February 2017. DOI: [10.1007/s00236-016-0276-z](#).
- [2] Serge Haddad and Benjamin Monmege. Interval Iteration Algorithm for MDPs and IMDPs. *Theoretical Computer Science*, January 2017. DOI: [10.1016/j.tcs.2016.12.003](#).
- [3] Paul Gastin and Benjamin Monmege. A Unifying Survey on Weighted Logics and Weighted Automata. *Soft Computing*:1–79, December 2015. DOI: [10.1007/s00500-015-1952-6](#).
- [4] Benedikt Bollig, Peter Habermehl, Martin Leucker, and Benjamin Monmege. A Robust Class of Data Languages and an Application to Learning. *Logical Methods in Computer Science*, 10(4:19), December 2014. DOI: [10.2168/LMCS-10\(4:19\)2014](#).

- [5] Paul Gastin and Benjamin Monmege. Adding Pebbles to Weighted Automata: Easy Specification and Efficient Evaluation. *Theoretical Computer Science*, 534:24–44, May 2014. DOI: [10.1016/j.tcs.2014.02.034](https://doi.org/10.1016/j.tcs.2014.02.034).
- [6] Benedikt Bollig, Paul Gastin, Benjamin Monmege, and Marc Zeitoun. Pebble Weighted Automata and Weighted Logics. *ACM Transactions on Computational Logic*, 15(2:15), April 2014. DOI: [10.1145/2579819](https://doi.org/10.1145/2579819).
- [7] Pierre Ganty, Rupak Majumdar, and Benjamin Monmege. Bounded Underapproximations. *Formal Methods in System Design*, 40(2):206–231, April 2012. DOI: [10.1007/s10703-011-0136-y](https://doi.org/10.1007/s10703-011-0136-y).

## International conferences with selection committee

- [8] Thomas Brihaye, Gilles Geeraerts, Hsi-Ming Ho, and Benjamin Monmege. MightyL: A Compositional Translation from MITL to Timed Automata. In *Proceedings of the 29th International Conference on Computer Aided Verification, Part I (CAV'17)*. Rupak Majumdar and Viktor Kunčák, editors. Volume 10426. In Lecture Notes in Computer Science. Springer, Heidelberg, Germany, July 2017, pages 421–440. DOI: [10.1007/978-3-319-63387-9\\_21](https://doi.org/10.1007/978-3-319-63387-9_21).
- [9] Damien Busatto-Gaston, Benjamin Monmege, and Pierre-Alain Reynier. Optimal Reachability in Divergent Weighted Timed Games. In *Proceedings of the 20th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS'17)*. Javier Esparza and Andrzej S. Murawski, editors. Volume 10203. In Lecture Notes in Computer Science. Springer, Uppsala, Sweden, April 2017, pages 162–178. DOI: [10.1007/978-3-662-54458-7\\_10](https://doi.org/10.1007/978-3-662-54458-7_10).
- [10] Thomas Brihaye, Morgane Estiévenart, Gilles Geeraerts, Hsi-Ming Ho, Benjamin Monmege, and Nathalie Sznajder. Real-Time Synthesis is Hard! In *Proceedings of the 14th International Conference on Formal Modeling and Analysis of Timed Systems (FORMATS'16)*. Martin Fränzle and Nicolas Markey, editors. Volume 9884. In Lecture Notes in Computer Science. Springer, Quebec city, Canada, August 2016, pages 105–120. DOI: [10.1007/978-3-319-44878-7\\_7](https://doi.org/10.1007/978-3-319-44878-7_7).
- [11] Thomas Brihaye, Amit Kumar Dhar, Gilles Geeraerts, Axel Haddad, and Benjamin Monmege. Efficient Energy Distribution in a Smart Grid Using Multi-Player Games. In *Proceedings of the Casting Workshop on Games for the Synthesis of Complex Systems (Casting'16) and the 3rd International Workshop on Synthesis of Complex Parameters (SynCoP'16)*. Thomas Brihaye, Benoît Delahaye, Nicolas Markey, and Jiří Srba, editors. Volume 220. EPTCS, Eindhoven, Netherlands, April 2016, pages 1–12. DOI: [10.4204/EPTCS.220.1](https://doi.org/10.4204/EPTCS.220.1).
- [12] Thomas Brihaye, Gilles Geeraerts, Axel Haddad, Benjamin Monmege, Guillermo A. Pérez, and Gabriel Renault. Quantitative Games under Failures. In *Proceedings of the 35th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS'15)*. Prahladh Harsha and G. Ramalingam, editors. Volume 45. In Leibniz International Proceedings in Informatics (LIPIcs). Schloss Dagstuhl–Leibniz-Zentrum für Informatik, Bangalore, India, December 2015, pages 293–306. DOI: [10.4230/LIPIcs.FSTTCS.2015.293](https://doi.org/10.4230/LIPIcs.FSTTCS.2015.293).
- [13] Thomas Brihaye, Gilles Geeraerts, Axel Haddad, Engel Lefauchaux, and Benjamin Monmege. Simple Priced Timed Games Are Not That Simple. In *Proceedings of the 35th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS'15)*. Prahladh Harsha and G. Ramalingam, editors. Volume 45. In Leibniz International Proceedings in Informatics (LIPIcs). Schloss Dagstuhl–Leibniz-Zentrum für Informatik, Bangalore, India, December 2015, pages 278–292. DOI: [10.4230/LIPIcs.FSTTCS.2015.278](https://doi.org/10.4230/LIPIcs.FSTTCS.2015.278).
- [14] Thomas Brihaye, Gilles Geeraerts, Axel Haddad, and Benjamin Monmege. To Reach or not to Reach? Efficient Algorithms for Total-Payoff Games. In *Proceedings of the 26th International Conference on Concurrency Theory (CONCUR'15)*. Luca Aceto and David de Frutos Escrig, editors. Volume 42. In LIPIcs. Schloss Dagstuhl–Leibniz-Zentrum für Informatik, Madrid, Spain, September 2015, pages 297–310. DOI: [10.4230/LIPIcs.CONCUR.2015.297](https://doi.org/10.4230/LIPIcs.CONCUR.2015.297).
- [15] Thomas Brihaye, Gilles Geeraerts, Shankara Narayanan Krishna, Lakshmi Manasa, Benjamin Monmege, and Ashutosh Trivedi. Adding Negative Prices to Priced Timed Games. In *Proceedings of the 25th International Conference on Concurrency Theory (CONCUR'14)*. Paolo Baldan and Daniele Gorla, editors. Volume 8704. In Lecture Notes in Computer Science. Springer, Roma, Italy, September 2014, pages 560–575. DOI: [10.1007/978-3-662-44584-6\\_38](https://doi.org/10.1007/978-3-662-44584-6_38).
- [16] Serge Haddad and Benjamin Monmege. Reachability in MDPs: Refining Convergence of Value Iteration. In *Proceedings of the 8th International Workshop on Reachability Problems (RP'14)*. Joël Ouaknine, Igor Potapov, and James Worrell, editors. Volume 8762. In Lecture Notes in Computer Science. Springer, Oxford, United Kingdom, September 2014, pages 125–137. DOI: [10.1007/978-3-319-11439-2\\_10](https://doi.org/10.1007/978-3-319-11439-2_10).
- [17] Benedikt Bollig, Paul Gastin, Benjamin Monmege, and Marc Zeitoun. Logical Characterization of Weighted Pebble Walking Automata. In *Proceedings of the joint meeting of the 23rd EACSL Annual Conference on Computer Science Logic (CSL) and the 29th Annual ACM/IEEE Symposium on Logic in Computer Science (LICS)*. Thomas A. Henzinger and Dale Miller, editors. ACM, Vienna, Austria, July 2014. DOI: [10.1145/2603088.2603118](https://doi.org/10.1145/2603088.2603118).

- [18] Benedikt Bollig, Peter Habermehl, Martin Leucker, and Benjamin Monmege. A Fresh Approach to Learning Register Automata. In *Proceedings of the 17th International Conference on Developments in Language Theory (DLT'13)*. Marie-Pierre Béal and Olivier Carton, editors. Volume 7907. In Lecture Notes in Computer Science. Springer, Marne-la-Vallée, France, June 2013, pages 118–130. DOI: [10.1007/978-3-642-38771-5\\_12](https://doi.org/10.1007/978-3-642-38771-5_12).
- [19] Benedikt Bollig, Paul Gastin, and Benjamin Monmege. Weighted Specifications over Nested Words. In *Proceedings of the 16th International Conference on Foundations of Software Science and Computation Structures (FoSSaCS'13)*. Frank Pfenning, editor. Volume 7794. In Lecture Notes in Computer Science. Springer, Roma, Italy, March 2013, pages 385–400. DOI: [10.1007/978-3-642-37075-5\\_25](https://doi.org/10.1007/978-3-642-37075-5_25).
- [20] Benedikt Bollig, Paul Gastin, Benjamin Monmege, and Marc Zeitoun. A Probabilistic Kleene Theorem. In *Proceedings of the 10th International Symposium on Automated Technology for Verification and Analysis (ATVA'12)*. Madhavan Mukund and Supratik Chakraborty, editors. Volume 7561. In Lecture Notes in Computer Science. Springer, Thiruvananthapuram, India, October 2012, pages 400–415. DOI: [10.1007/978-3-642-33386-6\\_31](https://doi.org/10.1007/978-3-642-33386-6_31).
- [21] Paul Gastin and Benjamin Monmege. Adding Pebbles to Weighted Automata. In *Proceedings of the 17th International Conference on Implementation and Application of Automata (CIAA'12)*. Nelma Moreira and Rogério Reis, editors. Volume 7381. In Lecture Notes in Computer Science. Springer, Porto, Portugal, July 2012, pages 28–51. DOI: [10.1007/978-3-642-31606-7\\_4](https://doi.org/10.1007/978-3-642-31606-7_4).
- [22] Benedikt Bollig, Paul Gastin, Benjamin Monmege, and Marc Zeitoun. Pebble Weighted Automata and Transitive Closure Logics. In *Proceedings of the 37th International Colloquium on Automata, Languages and Programming (ICALP'10) – Part II*. Samson Abramsky, Friedhelm Meyer auf der Heide, and Paul Spirakis, editors. Volume 6199. In Lecture Notes in Computer Science. Springer, Bordeaux, France, July 2010, pages 587–598. DOI: [10.1007/978-3-642-14162-1\\_49](https://doi.org/10.1007/978-3-642-14162-1_49).
- [23] Pierre Ganty, Rupak Majumdar, and Benjamin Monmege. Bounded Underapproximations. In *Proceedings of the 22nd International Conference on Computer Aided Verification (CAV'10)*. Byron Cook, Paul Jackson, and Tayssir Touili, editors. Volume 6174. In Lecture Notes in Computer Science. Springer, Edinburgh, Scotland, UK, July 2010, pages 600–614. DOI: [10.1007/978-3-642-14295-6\\_52](https://doi.org/10.1007/978-3-642-14295-6_52).

## Thesis and internship reports

- [24] Benjamin Monmege. Specification and Verification of Quantitative Properties: Expressions, Logics, and Automata. Thèse de doctorat. Laboratoire Spécification et Vérification, ENS Cachan, France, October 2013. URL: <http://www.lsv.ens-cachan.fr/~monmege/download/thesis.pdf>.
- [25] Benjamin Monmege. Propriétés quantitatives des mots et des arbres – Applications aux langages XML. Rapport de Master. Master Parisien de Recherche en Informatique, Paris, France, September 2010.
- [26] Benjamin Monmege. Parikh-equivalent bounded languages for software verification. Master 1 Internship Report at UCLA (USA). ENS de Cachan, 2008.
- [27] Benjamin Monmege. Validation d’algorithmes de recalage non rigide appliqués aux images médicales. Licence 3 Internship Report in Rainbow Team, Polytech’Nice Sophia Antipolis (France). ENS de Cachan, 2007.

## Technical reports

- [28] Thomas Brihaye, Gilles Geeraerts, Axel Haddad, Benjamin Monmege, Guillermo A. Pérez, and Gabriel Renault. Quantitative Games under Failures. Research Report (1504.06744). arXiv, April 2015. URL: <http://arxiv.org/abs/1504.06744>.
- [29] Thomas Brihaye, Gilles Geeraerts, Axel Haddad, and Benjamin Monmege. To Reach or not to Reach? Efficient Algorithms for Total-Payoff Games. Research Report (1407.5030). arXiv, July 2014. URL: <http://arxiv.org/abs/1407.5030>.
- [30] Serge Haddad and Benjamin Monmege. Reachability in MDPs: Refining Convergence of Value Iteration. Research Report (LSV-14-07). Laboratoire Spécification et Vérification, ENS Cachan, France, June 2014. URL: [http://www.lsv.ens-cachan.fr/Publics/RAPPORTS\\_LSV/PDF/rr-lsv-2014-07.pdf](http://www.lsv.ens-cachan.fr/Publics/RAPPORTS_LSV/PDF/rr-lsv-2014-07.pdf).
- [31] Thomas Brihaye, Gilles Geeraerts, Shankara Narayanan Krishna, Lakshmi Manasa, Benjamin Monmege, and Ashutosh Trivedi. Adding Negative Prices to Priced Timed Games. Research Report (1404.5894). arXiv, April 2014. URL: <http://arxiv.org/abs/1404.5894>.
- [32] Benedikt Bollig, Peter Habermehl, Martin Leucker, and Benjamin Monmege. A Fresh Approach to Learning Register Automata. Research Report (hal-00743240). 18 pages. HAL, October 2012. URL: <http://hal.archives-ouvertes.fr/hal-00743240>.
- [33] Benedikt Bollig, Paul Gastin, Benjamin Monmege, and Marc Zeitoun. Weighted Expressions and DFS Tree Automata. Research Report (LSV-11-08). 32 pages. Laboratoire Spécification et Vérification, ENS Cachan, France, April 2011. URL: [http://www.lsv.ens-cachan.fr/Publics/RAPPORTS\\_LSV/PDF/rr-lsv-2011-08.pdf](http://www.lsv.ens-cachan.fr/Publics/RAPPORTS_LSV/PDF/rr-lsv-2011-08.pdf).
- [34] Benedikt Bollig, Paul Gastin, Benjamin Monmege, and Marc Zeitoun. Pebble Weighted Automata and Transitive Closure Logics. Research Report (LSV-10-06). Laboratoire Spécification et Vérification, ENS Cachan, France, March 2010. URL: [http://www.lsv.ens-cachan.fr/Publics/RAPPORTS\\_LSV/PDF/rr-lsv-2010-06.pdf](http://www.lsv.ens-cachan.fr/Publics/RAPPORTS_LSV/PDF/rr-lsv-2010-06.pdf).

- [35] Pierre Ganty, Rupak Majumdar, and Benjamin Monmege. Bounded Underapproximations. Research Report (0809.1236v4). arXiv, January 2010. URL: <http://arxiv.org/abs/0809.1236>.

### Selection of recently given talks

- [36] Highlights Conference (Bruxelles). [Real-Time Synthesis is Hard!](#) September 2016.
- [37] Seminar LACL (Créteil). [To Reach or not to Reach? Efficient Algorithms for Total-Payoff Games](#). May 2016.
- [38] 35th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (Bangalore). [Simple Priced Timed Games Are Not That Simple](#). December 2015.
- [39] Workshop AVeRTS (Bangalore). [Efficient Reactive Synthesis of MITL Properties](#). December 2015.
- [40] Workshop Infinity (Bangalore). [Logics for Weighted Automata and Transducers](#). December 2015.
- [41] 26th International Conference on Concurrency Theory CONCUR (Madrid). [To Reach or not to Reach? Efficient Algorithms for Total-Payoff Games](#). September 2015.
- [42] Workshop Non-Zero-Sum Games and Control (Dagstuhl). [Why Negatively-Priced Timed Games are Hard?](#) February 2015.
- [43] 8th International Workshop on Reachability Problems RP (Oxford). [Reachability in MDPs: Refining Convergence of Value Iteration](#). September 2014.
- [44] Highlights Conference (Paris). [Adding Negative Prices to Priced Timed Games](#). September 2014.
- [45] Joint meeting of the 23rd EACSL Annual Conference on Computer Science Logic CSL and the 29th Annual ACM/IEEE Symposium on Logic in Computer Science LICS (Vienna). [Logical Characterization of Weighted Pebble Automata Navigating over Graphs](#). July 2014.
- [46] 7th International Workshop Weighted Automata, Theory and Applications (Leipzig). [Logical Characterization of Weighted Pebble Automata Navigating over Graphs](#). May 2014.
- [47] 1st Cassting Workshop ETAPS 2014. [Weighted Timed Games: Positive Results with Negative Costs](#). April 2014.
- [48] Journées Nationales du Groupe de Recherche Informatique et Mathématiques (Paris). [Spécification et vérification de propriétés quantitatives](#). January 2014.
- [49] 17th International Conference on Developments in Language Theory DLT (Marne la Vallée). [A Fresh Approach to Learning Register Automata](#). June 2013.
- [50] 16th International Conference on Foundations of Software Science and Computation Structures FoSSaCS (Rome). [Weighted Specifications over Nested Words](#). March 2013.
- [51] 10th International Symposium on Automated Technology for Verification and Analysis ATVA (Trivendrum, Inde). [A Probabilistic Kleene Theorem](#). October 2012.
- [52] 37th International Colloquium on Automata, Languages and Programming ICALP (Bordeaux). [Pebble weighted automata and transitive closure](#). July 2010.