Pierre-Alain REYNIER

Laboratoire d'Informatique et des Systèmes (LIS)   French citizenship
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Positions

since 2016 : Professor in computer science at Aix Marseille University. Since October 2015, head of the research group "Modelization and Verification" of the LIS.

2014-2015 : On leave at CNRS, researcher at LIF.

2008–2016 : Assistant professor in computer science at Aix Marseille University. Member of the research group "Modelization and Verification" of the LIF.

2007–2008 : Post-doctoral researcher at the Free University of Brussels (Belgium) in the team of Prof. Jean-François Raskin.

2004–2007 : PhD student at Laboratoire Spécification et Vérification (ENS Cachan) under the supervision of Patricia Bouyer and François Laroussinie.

Education

2015 : Habilitation thesis in Computer Science defended on December 4, 2015
    : *Title:* Contributions to timed systems and transducers
    : *Department:* Aix-Marseille Université & CNRS
    : *Committee:*

Rajeev Alur	Prof. University of Pennsylvania, USA	reviewer
François Denis	Prof. Aix-Marseille Université, France	
Anca Muscholl	Prof. Université de Bordeaux & IUF, France	reviewer
Jean-François Raskin	Prof. Université Libre de Bruxelles, Belgium	
Philippe Schnoebelen	DR CNRS, ENS Cachan, France	
Jean-Marc Talbot	Prof. Aix-Marseille Université, France	
Sophie Tison	Prof. Université de Lille, France	
James Worrell	Prof. Oxford University, England	reviewer

2004–2007 : PhD thesis in Computer Science defended on June 21, 2007
    : *Title:* Verification of timed and distribued systems: models, algorithms and implementability
    : *Department:* Laboratoire Spécification et Vérification, CNRS & ENS Cachan
    : *Committee:*

Parosh A. Abdulla	Prof. Univ. Uppsala, Sweden	
Ahmed Bouajjani	Prof. Université Paris Diderot, France	reviewer
Patricia Bouyer-Decitre	DR CNRS, ENS Cachan, France	superviser
Serge Haddad	Prof. ENS Cachan, France	
Claude Jard	Prof. Université de Nantes, France	
François Laroussinie	Prof. Université Paris Diderot, France	superviser
Jean-François Raskin	Prof. Université Libre de Bruxelles, Belgium	reviewer

2003–2004 : "DEA" in Computer Science (with distinction TB, ranked 2nd)

2002–2003 : "Agrégation" in Mathematics (ranked 47)

2001–2002 : "Maîtrises" in Computer Science and Mathematics (both with distinction TB)

Sept. 2001 : Entrance at "École Normale Supérieure de Cachan", department of Mathematics

Awards

2020 Prime d'Encadrement Doctoral et de Recherche – french grant for outstanding research, awarded for four years

2018 Best paper award at FM'2018

2016 Prime d'Encadrement Doctoral et de Recherche – french grant for outstanding research, awarded for four years

2012 Prime d'Excellence Scientifique – french grant for outstanding research, awarded for four years

2007 Lavoisier fellowship for a one year post-doctoral stay at Free University of Brussels

Research interests

My research works fall into the framework of formal methods for software verification. More precisely, I study automata based approaches and their connection with logics, and I am particularly interested in timed systems, transducers, weighted automata and distributed systems. The application domains range from embedded systems to static analysis of databases and transformations of XML documents.

Projects

- Participation to the ANR [1] TickTac on verification and synthesis of timed systems, 2018–2023

- Participation to the ANR Delta on logic, transducers and automata, 2016–2021

- Principal Investigator of the CNRS PEPS Project SoSI on security of timed systems, 2016

- Principal Investigator of the PHC Project VAST on Verification and Synthesis of Transformations (collaboration with ULB), 2016

- Participation to the ANR Macaron on distributed computing, 2013–2017

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[1] The ANR is the french agency for research.

- Participation to the FP7-IT european project Cassting on system synthesis with non-zero sum games, 2013–2016

- Participation to the CNRS PICS Project SOSP on synthesis of stream processors, 2013–2014

- Principal Investigator of the ANR ECSPER on study and conception of systems under perturbations, 2009–2013

- Principal Investigator of the regional project in collaboration with Novadem on formal methods for unmanned quadricopters, 2009–2012

- Participation to the ANR IMPRO on implementability and robustness of timed systems, 2011–2013

- Participation to the program Quasimodo (funded by European Commission) on Quantitative System Properties in Model-Driven Design of Embedded Systems, 2008–2010

- Participation to the IAP MoVES (Interuniversity Attraction Poles Programme) on Modelling, Verification and Evolution of Software, 2007–2011

- Participation to the ANR DOTS on distributed, open and timed systems, 2007–2010

- Participation to the ACI CORTOS on control of timed systems, 2003–2006

Responsabilities in Schools and Conferences

Steering committee

- MOVEP, from 2012 to 2016 (International School on Modelling and Verifying Parallel Processes)

- GT Vérif -co-head-, since sept. 2017 (french research group on Verification)

Program committee

- Gandalf'22 (13th International Symposium on Games, Automata, Logics, and Formal Verification)

- Petri Nets'22 (43rd International Conference on Application and Theory of Petri Nets and Concurrency)

- MSR'21 (13th french Colloquium on Modelization of Reactive Systems)

- Gandalf'21 (12th International Symposium on Games, Automata, Logics, and Formal Verification)

- Petri Nets'21 (42nd International Conference on Application and Theory of Petri Nets and Concurrency)

- MOVEP'20 (14th International School on Modelling and Verifying Parallel Processes)

- Petri Nets'20 (41st International Conference on Application and Theory of Petri Nets and Concurrency)

- RP'19 (13th International Conference on Reachability Problems)

- FORMATS'19 (17th International Conference on Formal Modeling and Analysis of Timed Systems)

- Gandalf'19 (10th International Symposium on Games, Automata, Logics, and Formal Verification)

- MSR'19 (12th french Colloquium on Modelization of Reactive Systems)

- LICS'19 (34th Annual ACM/IEEE Symposium on Logic in Computer Science)

- Petri Nets'19 (40th International Conference on Application and Theory of Petri Nets and Concurrency)

- MFCS'18 (43rd International Symposium on Mathematical Foundations of Computer Science)

- RP'18 -co-chair- (12th International Workshop on Reachability Problems)

- MSR'17 -co-chair- (11th french Colloquium on Modelization of Reactive Systems)

- Highlights of Games, Automata and Logic, 2016

- ATVA'14 (12th International Symposium on Automated Technology for Verification and Analysis)

- MOVEP'12 -chair- (10th Int. Winter School on Modelling and Verifying Parallel Processes)

Organizing committee

- STACS'22 (39th International Symposium on Theoretical Aspects of Computer Science)

- GT Vérif'21 (Annual meeting of the french research group on Verification)

- GT Vérif'19 (Annual meeting of the french research group on Verification)

- RP'18 -chair- (12th International Workshop on Reachability Problems)

- GT Vérif'18 - co-chair- (Annual meeting of the french research group on Verification)

- MSR'17 -co-chair- (11th french Colloquium on Modelization of Reactive Systems)

- ALGA'16 (organizer of the annual meeting of working group ALGA -Automata, Logic, Games and Algebra)

- CSL'16 (25th Annual Conference on Computer Science Logic)

- MOVEP'12 -chair- (10th Int. Winter School on Modelling and Verifying Parallel Processes)

- FORMATS'06 (4th Int. Conference on Formal Modelling and Analysis of Timed Systems)

Collaborations

Apart from collaborations in France (LSV, IRIF, IRCCyN, LINA, LACL, IRISA), I also work with the following colleagues abroad:

- Free university of Brussels (Belgium): Jean-François Raskin, Emmanuel Filiot

- University of Bremen (Germany): Sebastian Maneth

- Aalborg university (Denmark): Kim G. Larsen

- Macquarie University (Australia): Franck Cassez

- IIT Mumbai (India): S. Akshay

Reviews

- Reviewer for international journals (approx. 3 each year): Journal of Computer and System Sciences, Distributed Computing, Real Time Systems, Logical Methods in Computer Science, Theoretical Computer Science, Discrete Event Dynamic Systems, Information and Computation, Mathematical Reviews, Fundamenta Informaticae, Journal Européen des Systèmes Automatisés, Formal Methods in System Design, Information Processing Letters

- Reviewer for international conferences (between 5 and 10 each year): LICS, ICALP, STACS, TACAS, FOSSACS, FSTTCS, FORMATS, ICATPN, LATA, MFCS, QEST, MSR, CONCUR, WODES, SOFSEM, CAV...

- Reviewer for the selection of a CIFRE PhD thesis (2009)

- Reviewer for the french agency of research (ANR), 2017 (twice), 2020

- Reviewer for the canadian agency for research (NSERC), 2017

- Participation to PhD thesis committees:

    - (reviewer) Thanh Tung Tran, Verification of timed automata: reachability, liveness and modelling, Université de Bordeaux, 2016
    - (reviewer) Félix Baschenis, Minimizing resources for regular word transductions, Université de Bordeaux, 2017
    - (examiner) Nicolas Mazzochi, Contributions to formalisms for the specification and verification of quantitative properties, Université Libre de Bruxelles, 2020
    - (reviewer) Radomir Polach, On Determinisation of Pushdown Automata and Conversion of Regular Tree Expressions to Determinisable Pushdown Automata, Czech Technical University in Prague, 2021
    - (reviewer) Paul Gallot, Safety of transformations of data trees, Université de Lille, 2021
    - (examiner) Igor Khmelnitsky, Verification of Infinite-State Systems and Machine Learning, ENS Paris-Saclay, 2022

Supervision

Short internships:

- Rémi Cheval (6 weeks in 2010, L3 ENS Cachan), co-supervised (50%) with Jean-Marc Talbot

- Rémi Poulain (6 weeks in 2013, L3 ENS Cachan)

- Pierre Salles (1 week in 2017, ECM)

- Julie Parreaux (1 month in 2019, M1 ENS Rennes), co-supervised (50%) with Benjamin Monmege

- Thomas Galland (1 month, 2019, L3 AMU), co-supervised with colleagues from MoVe team

- Gabriel Aillet (3 weeks, 2020, L3 ECM)

Master 2 internships:

- Rémi Jaubert (2009, M2 Aix-Marseille University)

- Mathieu Caralp (2011, M2 Aix-Marseille University), co-supervised (50%) with Jean-Marc Talbot

- Damien Busatto-Gaston (2016, M2 Paris University - MPRI), co-supervised (50%) with Benjamin Monmege

- Julie Parreaux (2020, M2 ENS Rennes), co-supervised (50%) with Benjamin Monmege

PhD Thesis:

- Rémi Jaubert: Quantitative robustness of timed automata, 2009-2012, abort due to illness. Now software engineer.

- Mathieu Caralp: Finite valuedness of visibly pushdown transducers, 2011-2015, defended on December 18, 2015, co-supervised (50%) with Jean-Marc Talbot. Now working in start-up Led's chat.

- Didier Villevalois: Synthesis of transformations, 2015–2019. Now working in start-up Volta Medical.

- Damien Busatto-Gaston: Timed games: costs and robustness, 2016–2019, co-supervised (50%) with Benjamin Monmege. Now post-doc at ULB, Brussels.

- Léo Exibard: Synthesis of systems with data, 2017–2021, co-supervised (50%) with Emmanuel Filiot (ULB, Belgium). Now post-doc at Reykjavik.

- Julie Parreaux: Weighted timed games: randomization and robustness, 2020–, defense expected in 2023, co-supervised (50%) with Benjamin Monmege

- Guillaume Maurras: Logical characterizations of higher-order languages, 2020–, defense expected in 2023, co-supervised (50%) with Séverine Fratani

Post-doctoral students:

- Youssouf Oualhadj: Synthesis of robust controllers, funded by ANR ECSPER, 2012-2013, now assistant professor at Univ. Paris Est Créteil

- Luc Dartois: First-order definable regular string functions, ATER Centrale Marseille, 2014-2015, now assistant professor at Univ. Paris Est Créteil

- Laure Daviaud: Cost functions for nested words, funded by Labex Archimède, 2014-2015, co-supervised (50%) with JM Talbot, now Leturer at City Univ. London

- Antoine Durand-Gasselin: Transductions of data-words, ATER Centrale Marseille, 2015-2016. Now working in a private company.

- Louis-Marie Dando: Weighted automata and regular expressions, funded by ANR Delta, 2020-2021. Co-supervised by colleagues from the MoVe team, now post-doc at Madrid, IMDEA.

Talks ───

- Plenary talk on Verification and Synthesis to the M1 students of computer science, Aix-Marseille University. November 2021.

- Invited lecture (with Emmanuel Filiot) at the school for young researchers of GDR IM (EJCIM 2019), on transductions. March 2019.

- Invited talk at the annual meeting of the GDR-IM (Ecole Polytechnique) on *Register minimization of streaming string transducers*, April 2018

- Invited talk during the visit of the LIS by students of Ecole Centrale Marseille, March 2018

- Invited talk at the seminar of the Verfication group, Oxford University on *Register minimization of streaming string transducers*, February 2018

- Invited talk during the visit of the LIS by students of ENS Cachan (Paris-Saclay), November 2017

- Invited talk at LSV'15th Anniversary (Cachan) on *Simplifying transducers*, May 2017

- Invited talk at Dagstuhl seminar 17142 on *Two twinning properties for transducers*, April 2017

- Invited talk at CFV (Brussels) on *A survey on transducers*, May 2016

- Invited lecture at MOVEP'14 on *Robustness of Timed Systems*

- Talks at international conferences: RP'17, CONCUR'14, FSTTCS'11, Petri Nets'11, CONCUR'09, HSCC'09, FoSSaCS'08, ICALP'06, ATVA'06, FORMATS'05

- Several talks at working groups or meetings of research projects

- Several talks in the following laboratories: Oxford, LACL, IRISA, ULB, LaBRI, LIF, LIAFA.

Teaching

Teaching at the department of Computer Science of Aix-Marseille University since september 2008. Approximately 200h of lectures, exercises and practical sessions each year.

Main teaching responsabilities:

- Head of the Master on Research in Computer Science and Discrete Maths (previously Fundamental Computer Science), from 2013 to 2021. This is the main master oriented towards research and relying on research done at the "Pôle Calcul" of the LIS. The second year is shared with a master in mathematics. We have approximately ten students each year.

- Member of the team (4 colleagues) working on a new lecture on ecological and societal impact of computer science, L3, 2021–.

- Lecture on Automata and Logic, M2 Research, since 2013

- Lecture on Automata and Language theory, L2, 2018

- Lecture on Introduction to computer science, L1, since 2008

- Lecture on XML Technologies, M1, 2009-2011, 2015-2017

- Lecture on Discrete Event Systems, M1, 2013, 2014, 2017

- Lecture on Formal Methods, M2

- Lecture on Real-time scheduling, M1

- Practical sessions on Prolog, L3

Previously, I was a teaching assistant at ENS Cachan during my PhD and I was also examiner in "Classes Préparatoires" in mathematics and computer science.

Administrative responsabilities

- Co-head, with Nathalie Bertrand (INRIA Rennes), of the french research group on Verification (GT Vérif), part of the research network on Informatics and Mathematics of the CNRS (GDR IM), since September 2017. This group gathers approximately 200 researchers in France.

- Head of the research group "Modelization and Verification" of the LIS since october 2015 (currently composed of 4 professors, 4 assistant professors, 1 researcher and 5 non-permanent members).

- Member of the selection committee for assistant professor positions:

  - (internal member) University of Provence, 2010
  - (external member) University Paris-Diderot, 2013
  - (external member) University Paris-Diderot, 2015
  - (external member) University Paris-Est Créteil, 2015
  - (chair of the committee) Aix-Marseille University, 2020

- Responsabilities in my laboratory:

  - elected member of the lab council (LIS), since its creation in 2018
  - member of the council of Pôle Calcul (LIS), since its creation in 2018
  - member of the commission for the PhD fundings of ED 182, 2020
  - member of the lab council (LIF), 2015–2017
  - selection committee for ATER positions at the computer science department (2014)
  - in charge of the visit of the LIF by the computer science department of ENS Cachan (2013)
  - representative member at the CCS27 (2011)
  - strong implication in the different groups working on the definition of a new research lab, resulting of the merging of LIF and LSIS

- Other local responsabilities:

  - member of the council of FRIIAM (FR3513), 2012–2017
  - member of the council of ED 184, dec. 2021–

- Responsabilities in my research group:

  - representative member at the FRIIAM
  - in charge of the weekly seminar (2008-2015)
  - in charge of the webpage (2008-2014)
  - in charge of the valorisation (2008-)

My publications are available at:
`https://pageperso.lis-lab.fr/~pierre-alain.reynier/index.php?page=publis`
A summary of these publications is:

- 6 books or book chapters

- 18 publications in international journals (2 acc. w. minor revision)

- 40 publications in international conferences with proceedings and reviewing committee

- 2 invited publications

- 2 publications in international workshops

Chapters in books

[1] F. Cassez et al. "Quantitative Model-Based Analysis of Real-Time Embedded Systems". In: ed. by K. G. Larsen, J. Tretmans, and B. Nielsen. Springer, 2012. Chap. An Introduction to Automatic Synthesis of Discrete and Timed Controllers. ISBN: 978-94-007-1368-0.

[2] F. Cassez et al. "Quantitative Model-Based Analysis of Real-Time Embedded Systems". In: ed. by K. G. Larsen, J. Tretmans, and B. Nielsen. Springer, 2012. Chap. Timed Controller Synthesis: An Industrial Case Study. ISBN: 978-94-007-1368-0.

[3] P.-A. Reynier. "Models and Analysis in Distributed Systems". In: ed. by S. Haddad et al. 9. Wiley, 2011. Chap. Verification of Timed Systems, pp. 271–306. ISBN: 978-18-482-1314-2.

Edited books

[1] I. Potapov and P.-A. Reynier, eds. *Reachability Problems - 12th International Conference, RP 2018, Marseille, France, September 24-26, 2018, Proceedings*. Vol. 11123. Lecture Notes in Computer Science. Springer, 2018. ISBN: 978-3-030-00249-7. DOI: `10.1007/978-3-030-00250-3`.

[2] I. Demongodin and P.-A. Reynier, eds. *MSR 2017 - 11th National Colloquium on Modelization of Reactive Systems*. Marseille, France. November 15-17, 2017.

[3] P.-A. Reynier, ed. *MOVEP 2012 - 10th International Winter School on Modelization and Verification of Parallel Processes*. Marseille, France. December 3-7, 2012.

Articles in international journals

[1] D. Busatto-Gaston, B. Monmege, and P.-A. Reynier. "Optimal controller synthesis for timed systems". In: *Logical Methods in Computer Science* (2022). To appear (accepted with minor revision).

[2] L. Exibard et al. "Computability of Data-Word Transductions over Different Data Domains". In: *Logical Methods in Computer Science* (2022). To appear (accepted with minor revision).

[3] L. Exibard, E. Filiot, and P.-A. Reynier. "Synthesis of Data Word Transducers". In: *Logical Methods in Computer Science* 17.1 (2021). DOI: `10.23638/LMCS-17(1:22)2021`.

[4] G. Bacci et al. "Optimal and robust controller synthesis using energy timed automata with uncertainty". In: *Formal Aspects Comput.* 33.1 (2021), pp. 3–25. DOI: 10.1007/s00165-020-00521-4.

[5] E. Filiot and P.-A. Reynier. "Copyful Streaming String Transducers". In: *Fundam. Informaticae* 178.1-2 (2021), pp. 59–76. DOI: 10.3233/FI-2021-1998.

[6] N. Baudru and P.-A. Reynier. "From Two-Way Transducers to Regular Function Expressions". In: *Int. J. Found. Comput. Sci.* 31.6 (2020), pp. 843–873. DOI: 10.1142/S0129054120410087.

[7] E. Filiot et al. "Streamability of nested word transductions". In: *Logical Methods in Computer Science* 15.2 (2019). DOI: 10.23638/LMCS-15(2:1)2019.

[8] L. Dartois, I. Jecker, and P.-A. Reynier. "Aperiodic String Transducers". In: *International Journal of Foundations of Computer Science* 29 (5) (2018), pp. 801–824. DOI: 10.1142/S0129054118420054.

[9] E. Filiot et al. "Decision Problems of Tree Transducers with Origin". In: *Information and Computation* 261 (2018), pp. 311–335. ISSN: 0890-5401. DOI: 10.1016/j.ic.2018.02.011.

[10] E. Filiot et al. "Visibly Pushdown Transducers". In: *Journal of Computer and System Sciences* (2018). DOI: 10.1016/j.jcss.2018.05.002.

[11] E. Filiot and P.-A. Reynier. "Transducers, logic and algebra for functions of finite words". In: *SIGLOG News* 3.3 (2016), pp. 4–19. DOI: 10.1145/2984450.2984453.

[12] P.-A. Reynier and J.-M. Talbot. "Visibly Pushdown Transducers with Well-nested Outputs". In: *International Journal of Foundations of Computer Science* 27.2 (2016), pp. 235–258. DOI: 10.1142/S0129054116400086.

[13] S. Akshay et al. "Robustness of Time Petri Nets under Guard Enlargement". In: *Fundamenta Informaticae* 143.3-4 (2016), pp. 207–234. DOI: 10.3233/FI-2016-1312.

[14] M. Caralp, P.-A. Reynier, and J.-M. Talbot. "Trimming Visibly Pushdown Automata". In: *Theoretical Computer Science* 578 (2015), pp. 13–29. DOI: 10.1016/j.tcs.2015.01.018.

[15] P.-A. Reynier and F. Servais. "Minimal Coverability Set for Petri Nets: Karp and Miller Algorithm with Pruning". In: *Fundamenta Informaticae* 122.1-2 (2013), pp. 1–30. DOI: 10.3233/FI-2013-781.

[16] O.-L. Nguena-Timo and P.-A. Reynier. "On Characteristic Formulae for Event-Recording Automata". In: *RAIRO - Theoretical Informatics and Applications* 47.1 (2013), pp. 69–96. DOI: 10.1051/ita/2012029.

[17] P. Bouyer, S. Haddad, and P.-A. Reynier. "Undecidability Results for Timed Automata with Silent Transitions". In: *Fundamenta Informaticae* 92.1-2 (2009), pp. 1–25. DOI: 10.3233/FI-2009-0063.

[18] P. Bouyer, S. Haddad, and P.-A. Reynier. "Timed Petri nets and timed automata: On the discriminating power of Zeno sequences". In: *Information and Computation* 206.1 (2008), pp. 73–107. DOI: 10.1016/j.ic.2007.10.004.

Articles in proceedings of international conferences

[1] N. Baudru et al. "Weighted Automata and Expressions over Pre-Rational Monoids". In: *30th EACSL Annual Conference on Computer Science Logic (CSL 2022)*. Ed. by F. Manea and A. Simpson. LIPIcs. To appear. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2022.

[2] B. Monmege, J. Parreaux, and P.-A. Reynier. "Playing Stochastically in Weighted Timed Games to Emulate Memory". In: *48th International Colloquium on Automata, Languages, and Programming, ICALP 2021, July 12-16, 2021, Glasgow, Scotland (Virtual Conference)*. Ed. by N. Bansal, E. Merelli, and J. Worrell. Vol. 198. LIPIcs. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2021, 137:1–137:17. DOI: 10.4230/LIPIcs.ICALP.2021.137.

[3] B. Monmege, J. Parreaux, and P.-A. Reynier. "Reaching Your Goal Optimally by Playing at Random with No Memory". In: *Proc. 31st International Conference on Concurrency Theory (CONCUR 2020)*. Ed. by I. Konnov and L. Kovács. Vol. 171. LIPIcs. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2020, 26:1–26:21. DOI: 10.4230/LIPIcs.CONCUR.2020.26.

[4] L. Exibard, E. Filiot, and P.-A. Reynier. "On Computability of Data Word Functions Defined by Transducers". In: *Proc. 23rd International Conference on Foundations of Software Science and Computation Structures (FoSSaCS 2020)*. Ed. by J. Goubault-Larrecq and B. König. Vol. 12077. Lecture Notes in Computer Science. Springer, 2020, pp. 217–236. DOI: 10.1007/978-3-030-45231-5_12.

[5] D. Busatto-Gaston et al. "Robust Controller Synthesis in Timed Büchi Automata: A Symbolic Approach". In: *Proc. 31st International Conference on Computer Aided Verification (CAV 2019)*. Vol. 11561. Lecture Notes in Computer Science. Springer, 2019, pp. 572–590. DOI: 10.1007/978-3-030-25540-4_33.

[6] L. Exibard, E. Filiot, and P.-A. Reynier. "Synthesis of Data Word Transducers". In: *Proc. 30th International Conference on Concurrency Theory (CONCUR 2019)*. Vol. 140. LIPIcs. Schloss Dagstuhl - Leibniz-Zentrum für Informatik, 2019, 24:1–24:15. DOI: 10.4230/LIPIcs.CONCUR.2019.24.

[7] P.-A. Reynier and D. Villevalois. "Sequentiality of String-to-Context Transducers". In: *Proc. 46th International Colloquium on Automata, Languages, and Programming (ICALP 2019)*. Vol. 132. LIPIcs. Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, 2019, 128:1–128:14. DOI: 10.4230/LIPIcs.ICALP.2019.128.

[8] P.-A. Reynier and F. Servais. "On the Computation of the Minimal Coverability Set of Petri Nets". In: *Proc. 13th International Conference on Reachability Problems (RP 2019)*. Vol. 11674. Lecture Notes in Computer Science. Springer, 2019, pp. 164–177. DOI: 10.1007/978-3-030-30806-3_13.

[9] D. Busatto-Gaston, B. Monmege, and P.-A. Reynier. "Symbolic approximation of weighted timed games". In: *Proc. 38th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2018)*. LIPIcs. Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, 2018, 28:1–28:16. DOI: 10.4230/LIPIcs.FSTTCS.2018.28.

[10] N. Baudru and P.-A. Reynier. "From Two-Way Transducers to Regular Function Expressions". In: *Proc. 22nd International Conference on Developments in Language Theory (DLT 2018)*. Vol. 11088. Lecture Notes in Computer Science. Springer, 2018, pp. 96–108. DOI: 10.1007/978-3-319-98654-8_8.

[11] G. Bacci et al. "Optimal and Robust Controller Synthesis - Using Energy Timed Automata with Uncertainty". In: *Proc. 22nd International Symposium on Formal Methods, FM 2018, Held as Part of the Federated Logic Conference, FloC 2018*. Vol. 10951. Lecture Notes in Computer Science. Springer, 2018, pp. 203–221. DOI: 10.1007/978-3-319-95582-7_12.

[12] E. Filiot and P.-A. Reynier. "Copyful Streaming String Transducers". In: *Proc. of 11th International Workshop on Reachability Problems (RP 2017)*. Vol. 10506. Lecture Notes in Computer Science. Springer, 2017, pp. 75–86. DOI: 10.1007/978-3-319-67089-8_6.

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