

Patricia BOUYER-DECITRE

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Positions

- Since 2010 — Senior researcher at CNRS (LSV, CNRS & ENS Cachan, France)
Vice-head of LSV since June 2009
- 2007 — On sabbatical leave at Oxford University (England)
- 2002 – 2010 — Junior researcher at CNRS (LSV, CNRS & ENS de Cachan, France)
Head of the TEMPO group at LSV (with Nicolas Markey) from 2007 to 2009
- 2002 — Post-doctoral researcher at BRICS, Aalborg University (Denmark)
in the team “Distributed Systems and Semantics”

Education

- 2009 — Habilitation Thesis defended on January 12, 2009
Title: From Qualitative to Quantitative Analysis of Timed Systems
University: Université Paris 7 (France)
Committee: Rajeev Alur (referee), Ahmed Bouajjani, Joost-Pieter Katoen (referee), Kim G. Larsen, Anca Muscholl (referee), Antoine Petit, Jean-François Raskin
- 1999 - 2002 — PhD Thesis defended on April 5, 2002
Title: Modèles et algorithmes pour la vérification des systèmes temporisés
(Models and Algorithms for the Verification of Timed Systems)
Department: LSV, CNRS & ENS de Cachan
Supervisor: Antoine Petit
Committee: Claude Jard (referee), Kim G. Larsen (referee), Antoine Petit, Olivier Roux, Joseph Sifakis (referee), and Pascal Weil
- 1998 - 1999 — “Agrégation” in Mathematics
- 1997 - 1998 — “Maîtrise” in Computer Science (with distinction TB)
“DEA” in Computer Science (with distinction TB)
- 1996 - 1997 — “Maîtrise” in Mathematics (with distinction TB)
- Sept. 1996 — Entrance at “École Normale Supérieure de Cachan”
Admission at “École Polytechnique”

Awards

- 2013-2018 — PI of ERC project EQualIS
- 2011 — Presburger Award (given by the EATCS)
- 2007 — Bronze medal (given by the CNRS)
- 2006 — Marie Curie fellowship for a one year stay at Oxford University
- 2003 — PhD Thesis awarded by Specif, the french association of computer scientists

Responsibilities in Schools, Conferences and Journals

— Editorial boards —

- JLAMP (Journal of Logical and Algebraic Methods in Programming) since early 2014
- Acta Informatica since end of 2014

— Program chairs —

- FORMATS'06 (4th Int. Conf. on Formal Modelling and Analysis of Timed Systems), Paris, September 2006: co-chair with Eugene Asarin
- GDV'06 (3rd Int. Workshop Games in Design and Verification), Seattle, August 2006: co-chair with Madhusudan P.

— Workshop chair —

- LICS (IEEE Symposium on Logic in Computer Science) from 2013 to 2015, and from 2016 to 2018

— Program committees —

- LICS'17 (32nd IEEE Symposium on Logic in Computer Science) – (*forthcoming*)
- SOFSEM'17 (43rd International Conference on Current Trends in Theory and Practice of Computer Science) – (*forthcoming*)
- FSTTCS'16 (36th IARCS Annual Conference on Foundations of Software Technology and Theoretical Computer Science) – (*ongoing*)
- GandALF'16 (6th International Symposium on Games, Automata, Logics and Formal Verification)
- SYNT'16 (5th Workshop on Synthesis)
- SR'16 (International Workshop on Strategic Reasoning)
- MOVEP'16 (12th Summer School on Modelling and Verification of Parallel Processes)
- FSCD'16 (1st International Conference on Formal Structures for Computation and Deduction)
- TACAS'16 (22nd International Conference on Tools and Algorithms for the Construction and Analysis of Systems)

- MSR'15 (Modélisation des systèmes réactifs)
- CSL'15 (23rd Annual Conference on Computer Science Logic)
- LICS'15 (30th IEEE Symposium on Logic in Computer Science)
- TACAS'15 (21st International Conference on Tools and Algorithms for the Construction and Analysis of Systems)
- VMCAI'15 (16th International Conference on Verification, Model Checking, and Abstract Interpretation)
- HSCC'14 (17th International Conference on Hybrid Systems: Computation and Control)
- CONCUR'13 (24th International Conference on Concurrency Theory)
- ICALP'13 – Track B (40th International Colloquium on Automata, Languages and Programming)
- MEMICS'12 (8th Doctoral Workshop on Mathematical and Engineering Methods in Computer Science)
- LICS'12 (27th Annual Symposium on Logic in Computer Science)
- LATA'12 (6th International Conference on Language and Automata Theory and Applications)
- MSR'11 (Modélisation des systèmes réactifs)
- FORMATS'11 (8th International Conference on Formal Modelling and Analysis of Timed Systems)
- LICS'11 (26th Annual Symposium on Logic in Computer Science)
- TACAS'11 (17th International Conference on Tools and Algorithms for the Construction and Analysis of Systems)
- QEST'10 (7th International Conference on Quantitative Evaluation of Systems)
- MFCS'10 (35th International Symposium on Mathematical Foundations of Computer Science)
- ICALP'10 – Track B (37th International Colloquium on Automata, Languages and Programming)
- QAPL'10 (8th Workshop on Quantitative Aspects of Programming Languages)
- FoSSaCS'10 (13th International Conference on Foundations of Software Science and Computation Structures)
- MSR'09 (Modélisation des systèmes réactifs)
- EMSOFT'09 (International Conference on Embedded Software)
- QEST'09 (6th International Conference on Quantitative Evaluation of Systems)
- CSL'09 (17th Annual Conference on Computer Science Logic)
- SPIN'09 (16th International SPIN Workshop on Model Checking of Software)
- QAPL'09 (7th Workshop on Quantitative Aspects of Programming Languages)

- STACS'09 (26th International Symposium on Theoretical Aspects of Computer Science)
- SOFSEM'09 (35th International Conference on Current Trends in Theory and Practice of Computer Science)
- FORMATS'08 (5th International Conference on Formal Modelling and Analysis of Timed Systems)
- QEST'08 (5th International Conference on Quantitative Evaluation of Systems)
- CONCUR'08 (19th International Conference on Concurrency Theory)
- MOVEP'08 (8th Summer School on MOdelling and VERifying parallel Processes)
- QAPL'08 (6th Workshop on Quantitative Aspects of Programming Languages)
- JESA (Journal Européen des Systèmes Automatisés, special issue on formal real-time methods, 2008)
- TACAS'08 (14th International Conference on Tools and Algorithms for the Construction and Analysis of Systems)
- AVoCS'07 (7th International Workshop on Automated Verification of Critical Systems)
- FORMATS'07 (4th International Conference on Formal Modelling and Analysis of Timed Systems)
- MSR'07 (Modélisation des Systèmes Réactifs)
- AVoCS'06 (6th International Workshop on Automated Verification of Critical Systems)
- CONCUR'06 (17th International Conference on Concurrency Theory)
- FORMATS'05 (3rd International Conference on Formal Modelling and Analysis of Timed Systems)
- TACAS'05 (11th International Conference on Tools and Algorithms for the Construction and Analysis of Systems)
- FORMATS+FTRTFT'04 (Joint Conference on Formal Modelling and Analysis of Timed Systems and on Formal Techniques in Real-Time and Fault Tolerant System)

— **Organizing committees** —

- FORMATS'06 (4th International Conference on Modelling and Analysis of Timed Systems), Paris, September 2006: chair
- 32nd Spring School of Computer Science in 2004 “Theory of concurrency and applications”
- CSL'01 (Annual Conference of the European Association for Computer Science Logic)
- CAV'01 (13th International Conference on Computer Aided Verification)

Invited talks

— Invited talks at conferences and workshops —

- Invited talk at MFCS'16 (Krakow, Poland, August 2016) – (*forthcoming*)
- *Stochastic timed automata*. Invited talk at TRENDS'15 (Madrid, Spain, September 2015)
- *On the optimal reachability problem in weighted timed automata and games*. Invited talk at NCMA'15 (Porto, Portugal, August 2015)
- *On the optimal reachability problem in weighted timed games*. Invited talk at AutoMathA'15 (Leipzig, Germany, May 2015)
- *On the optimal reachability problem in weighted timed games*. CFV Seminar (Brussels, Belgium, March 2015)
- *On the optimal reachability problem in weighted timed games*. QuantLA seminar (Dresden, Germany, January 2015)
- *Robustness in timed automata*. Invited talk at RP'13 (Uppsala, Sweden, September 2013)
- *Robust control of timed systems*. Invited talk at “LCCC Workshop on Formal Verification of Embedded Control Systems” (Lund, Sweden, April 2013)
- *Quantitative models for verification*. Invited talk at “IFIP WG 2.2 (Formal Description of Programming Concepts)” day (Paris, France, September 2011)
- *Nash Equilibria in Timed Games*. Invited talk at the National Day of GDR IM (Paris, France, January 2011)
- *Energy Management in Timed Systems*. Invited talk at WATA'10 (Leipzig, Germany, May 2010)
- *Modelling, analyzing, and managing resources in timed systems*. Invited talk at MSR'09 (Nantes, France, November 2009)
- *On the Model Checking of Timed and Weighted Temporal Logics*. Invited talk at QUANT-LOG'09 (Rhodes, Greece, July 2009)
- *Quantitative Timed Games*. Invited talk at ACTS'09 (Chennai, India, January 2009)
- *Quantitative timed games*. Tutorial (1h30) at the GAMES'08 annual meeting (Warsaw, Poland, September 2008)
- *Model-Checking Timed Temporal Logics*. Invited talk at TFIT'08 (Taipei, Taiwan, March 2008)
- *Model-Checking Timed Temporal Logics*. Invited talk at M4M-5 (Cachan, France, November 2007)
- *Weighted Timed Automata: Model-Checking and Games*. Invited talk at CORTOS'06 (Bonn, Germany, August 2006)
- *Weighted Timed Automata: Model-Checking and Games*. Invited talk at MFPS XXII (Genova, Italy, May 2006)
- *Optimal Timed Games*. Invited talk at AVoCS'05 (Warwick, England, September 2005)

- *Optimal Reachability Timed Games*. Invited talk at INFINITY'05 (San Francisco, CA, USA, August 2005)
- *Partial Observation of Timed Systems*. Invited talk at GDV'05 (Edinburgh, Scotland, July 2005)
- *Timed Automata and Extensions: Decidability Limits*. Invited talk at JSI'05 (Cachan, France, March 2005)
- *Automates temporisés, de la théorie à l'implémentation*. Invited talk at FAC'04 (Toulouse, France, March 2004)
- *Timed Automata - From Theory to Implementation*. Invited talk at the workshop on Automata, Concurrency and Logic (Chennai, India, January 2003)

— **Invited tutorials and lectures** —

- *Timed automata and beyond: On the quantitative analysis of timed systems*. Lecture (3h) at the Digicosme spring school (Palaiseau, France, May 2016)
- *Robustness in Timed Systems*. Lecture (2h) at the EATCS summer school (Telč, Czech Republic, July 2014)
- *An introduction to timed automata*. Lecture (3h) at MOVEP'14 (Nantes, France, July 2014)
- *From timed automata to complex systems - Stochastic timed games*. Lecture (1h30) at the AVACS spring school (Oldenburg, Germany, March 2010)
- *Real-time model-checking*. Lecture at the QMC Spring School (Copenhagen, Denmark, March 2010)
- *On the verification and control of timed systems*. Lecture (6h) at Summer School VTSA'09 (Nancy, France, October 2009)
- *Energy consumption in timed systems*. Lecture (1h) at the Farman Institute at ENS Cachan (Cachan, France, November 2008)
- *Foundations for Timed Systems*. Lecture (1h30) at Summer School of European Project ARTIST2 (Nässlingen, Sweden, September 2005)
- *Vérification de systèmes temporisés et hybrides*. Lecture (1h) at École Temps-Réel 2005 (Nancy, France, September 2005)
- *Synthesis of Timed Systems*. Lecture (2h30) at Spring School of European Project GAMES (Bonn, Germany, March 2005)
- *Timed Automata - From Theory to Implementation*. Lecture (2h30) at MOVEP'04 (Brussels, Belgium, December 2004)
- *Timed Automata - From Theory to Implementation*. Tutorial (1h30) at QEST'04 (Twente, The Netherlands, September 2004)
- *Timed Models for Concurrent Systems*. Lecture (3h) at the 32nd Spring School of Theoretical Computer Science (Luminy, France, April 2004)
- *Introduction à la modélisation et à la vérification - Sous un angle temporisé...* Lecture (3h) at the department of computer science of ENS Cachan (September 2003)

Teaching

- 2015 - 2016 — *Verification of Timed Systems* in “Master Parisien de Recherche en Informatique”
- 2012 - 2013 — *Verification of Timed Systems* in “Master Parisien de Recherche en Informatique”
- 2011 - 2012 — *Verification of Timed Systems* in “Master Parisien de Recherche en Informatique”
- 2008 - 2009 — *Verification of Timed Systems* in “Master Parisien de Recherche en Informatique”
- 2005 - 2006 — *Verification of Timed Systems* in “Master Parisien de Recherche en Informatique”
- 2003 - 2004 — *Verification of Timed Systems* in “DEA Algorithmique”
- 2002 - 2003 — *Verification of Timed Systems* in “DEA Algorithmique”
- 2002 - 2003 — *Algorithmics* in “magistère de mathématiques et informatique” (ENS de Cachan)
- 2001 - 2002 — *Computability* in “magistère de mathématiques et informatique” (ENS de Cachan)
- 2001 - 2002 — *Algorithmics* in “prépa agreg d’économie et gestion” (ENS de Cachan)
- 2000 - 2001 — *Computability* in “magistère de mathématiques et informatique” (ENS de Cachan)
- 2000 - 2001 — *Programmation (C++)* in “licence de génie électrique” (ENS de Cachan)
- 1999 - 2000 — *Programmation (CAML) and finite automata* in Lycée Louis Le Grand, Paris

Projects I am/was involved in

- Principal Investigator of the ERC Starting grant project EQualIS (Jan. 2013 – Feb. 2019)
- Participation to the ANR project ImpRo on implementability and robustness of timed systems, 2011 – 2014
- Participation to the european project GASICS on Games for analysis and synthesis of interactive computational systems, 2009 – 2011
- Participation to the european project Quasimodo (program of the European Commission, part of FP7) on quantitative system properties in model-driven-design of embedded systems, 2008 – 2011
- Participation to the ARA DOTS (program of the French ministry of research) on distributed, open and timed systems, 2006 - 2011
- Participation to the TOAST project (program of the ENS de Cachan), 2006 - 2009
- Participation to the Indo-French Network Research Programme “Timed-DISCOVERI”, 2005 - 2008 (coordinators: Madhavan Mukund (CMI, India), Pascal Weil (LaBRI, France))
- Participation to the european network of excellence Artist2 (FP6)
- Coordinator of the ACI CORTOS (program of the French ministry of research) on control of timed systems, 2003 - 2006 (web site: <http://www.lsv.ens-cachan.fr/aci-cortos/>)
- Participation to project VSMT (program of the ENS de Cachan) on the verification of industrial automation controllers, 2002 - 2004
- Participation to ACI CHRONO (program of the French ministry of research) on scheduling of (coordinators: Franck Cassez (IRCCyN) and François Laroussinie (LSV))

- Locally responsible of AS Automates (program of the French ministry of research) on automata, distributed systems and timed systems, 2003 (coordinator: Pascal Weil (LaBRI))
- Participation to european project Ametist in 2002
- Participation to RNRT project Calife (program of the French ministriy of research) on verification of telecommunication protocols, 1999 - 2002

Stays in foreign countries

- In 2007, one year at Oxford University
- One stay at the Indian Institute of Science (Bangalore, India) in December 2007.
- One stay at the Institute of Mathematical Science (Chennai, India) in January 2003.
- One year post-doc at Aalborg University (BRICS & CISS, Denmark) in 2001-2002
- Six short stays at Aalborg University (BRICS & CISS, Denmark), excluding my post-doct: in August 1997 (four weeks), in May/June 2000 (three weeks), in December 2002 (ten days), in August 2003 (two weeks), in December 2003 (two weeks), and in February 2005 (one week).

Misc

— Reviews —

- Numerous reviews for CAV, CONCUR, STACS, SCODES, DLT, JALC, TACAS, HSCC, IJFCS, APLAS, FSTTCS, IPL, FOSSACS, RTA, LICS, EXPRESS, FORMATS, Fundamenta Informaticae, MSR, FM, ICALP, PODC... around 25/30 each year!
- Reviewer for the French project ARA SSIA in 2005, SETIN in 2006, and SESUR in 2007
- Reviewer for the Dutch NWO computer science open competition in 2005
- Reviewer for the British EPSRC projects in 2009
- Reviewer for the Czech GAČR projects in 2011
- Reviewer for the National Science Centre (Poland) in 2015
- Reviewer for the ULB-ARC project in 2016
- Reviewer for the ERC projects in 2014 and 2015
- AERES expert in 2011 (LITA, Metz), in 2012 (DI/ENS, Paris), in 2014 (LAAS, Toulouse), and in 2015 (LaBRI, Bordeaux)
- PhD committees:
 - Referee for P. Vijay Suman (Tata Institute of Fundamental Research, Mumbai, India, July 2009), Vojtěch Forejt (Masaryk University, Brno, Czech Republic, December 2009), Karin Quaas (University of Leipzig, Germany, March 2010), B. Srivathsan (Université Bordeaux 1, France, June 2012), Raj Mohan Mitteleplackel (Indian Institute of Science, Bangalore, India, November 2012), Jan Krčál (Masaryk University, Brno, Czech Republic, December 2013), and Shibashis Guha (IIT Delhi, India, Autumn 2015 – thesis rejected)

- Committee member for Pritha Mahata (Uppsala University, Sweden, March 2005), Thomas Brihaye (Université de Mons-Hainaut, Belgium, June 2006), Anders Hessel (Uppsala University, Sweden, May 2007), Amélie Stainer (Université de Rennes, France, November 2013)

- Habilitation committees:

- Referee for Didier Lime (Université de Nantes, France, December 2012) and Blaise Genest (Université de Rennes, France, March 2016)
- Committee member for Peter Niebert (Université de Provence, Marseille, France, December 2011)

— Supervision —

- PhD students:

- Mauricio Gonzalez (2016 – ??). Co-supervised by Nicolas Markey and Samson Lasaulce
- Samy Jaziri (2015 – ??). Co-supervised by Nicolas Markey
- Pierre Carlier (2014 – ??). Co-supervised (joint agreement) by Thomas Brihaye (University of Mons, Belgium)
- Patrick Gardy (2013 – ??). Co-supervised by Nicolas Markey
- Daniel Stan (2013 – ??). Co-supervised by Nicolas Markey
- Eleni-Maria Vretta (2013). Not defended. Co-supervised by Nicolas Markey
- Ocan Sankur (2010 – 2013). *Robustness in Timed Automata: Analysis, Synthesis, Implementation*. Co-supervised by Nicolas Markey. Ocan is now a CNRS researcher at IRISA (Rennes, France)
- Romain Brenguier (2009 – 2012). *Nash Equilibria in Concurrent Games – Application to Timed Games*. Co-supervised by Nicolas Markey. Romain is now working in the company DiffBlue (Oxford, UK)
- Fabrice Chevalier (2004 – 2007): *Logiques pour les systèmes temporisés : contrôle et expressivité*. Fabrice is now maths teacher in “classes préparatoires aux grandes écoles”.
- Pierre-Alain Reynier (2004 – 2007): *Vérification de systèmes temporisés et distribués : modèles, algorithmes et implémentabilité*. Co-supervised by François Laroussinie. Pierre-Alain is now university professor in Marseille.

- Master students: Fabrice Chevalier (2004), Pierre-Alain Reynier (2004), Agnès Robin (2004), Guylain Naves (2006), Romain Brenguier (2009), Ocan Sankur (2010), Steen Vester (2012), Erwin Fang (2013), Daniel Stan (2013), Samy Jaziri (2014), Mauricio Gonzalez (2015)

- Post-doc: Laura Bozzelli (Oct. 2005 - May 2006), Thomas Brihaye (Oct. 2006 - Sept. 2007), Delphine Longuet (Sep. 2008 - Aug. 2009), Michael Ummels (Feb. 2010 – Jan. 2012), Raj Mohan M (May 2013 – April 2015), Mickael Randour (Oct. 2014 – Sept. 2015), Maximilien Colange (Sept. 2015 – August 2016), Vincent Jugé (Feb. 2016 – August 2017)

- Other: Gabriel Renault (L3 internship), Vojtěch Forejt (PhD student at Brno University, Czech Republic), Francesco Donnarumma (PhD student at Napoli, Italy), Claus Thrane (PhD student at Aalborg University, Denmark), Jörg Olschewski (PhD student at RWTH Aachen, Germany), Bhargav N. Bhatt (student at IIT Kanpur, India), Simon Laursen (PhD student at Aalborg University, Denmark), Sourabh Ghurye (student at IIT Bombay, India), Soumyajit Paul (student at CMI, Chennai, India)

— **Administrative responsibilities** —

- Elected member of the “Comité National” of CNRS, section 6 (2012 - 2016)
- Representant of LSV at Institut Farman (2011 - 2013)
- Member of the selection committee for CR2 and CR1 at INRIA Rennes Bretagne Atlantique (2009)
- Member of the “Comité de sélection” at Université Paris 7 (Paris, 2009), at Université Joseph Fourier (Grenoble, 2010), at Université de Provence (Marseille, 2010 and 2015)
- Elected member of the “Conseil scientifique” of ENS de Cachan (from October 2005 to October 2008)
- Member of the “Commission de spécialistes” at Université Paris 7 and ENS de Cachan (from March 2004 to August 2008)

— **Other responsibilities** —

- Member of the committee for the “Prix de thèse Gilles Kahn” in 2014 and 2015. President of the committee from 2016 for three years.
- Member of the “Commission régionale d’interclassement de la BAP E” of the DR1, 2016
- Member of the committee for the selection of students at ENS Cachan (oral examination, 2008)
- Responsible of the working group on timed systems at LSV (2002 - 2004)
- Webmaster at LSV (1999 - 2001) and webmaster of the internal web site of LSV (2002 - 2007)
- PhD student representant in LSV (1999 - 2001)

Publications

All publications can be downloaded on <http://www.lsv.ens-cachan.fr/~bouyer/>

Chapter in a book

- [1] Patricia Bouyer, Uli Fahrenberg, Kim G. Larsen, Nicolas Markey, Joël Ouaknine, and James Worrell. Model checking real-time systems. *In Handbook of Model Checking*. Springer, 2016. To appear.
- [2] Patricia Bouyer and Antoine Petit. On extensions of timed automata. *In Perspectives in Concurrency Theory*, IARCS-Universities, pages 35–63. Universities Press, January 2009.
- [3] Patricia Bouyer and François Laroussinie. Model checking timed automata. *In Modeling and Verification of Real-Time Systems*. ISTE Ltd and John Wiley & Sons Inc., January 2008.
- [4] Patricia Bouyer and François Laroussinie. Vérification par automates temporisés. *In Systèmes temps-réel 1 : techniques de description et de vérification*, pages 121–150. Hermès, June 2006.

Edited book

- [5] Eugène Asarin and Patricia Bouyer, editors. *Proceedings of the 4th International Conference on Formal Modelling and Analysis of Timed Systems (FORMATS'06)*, volume 4202 of *Lecture Notes in Computer Science*. Springer.

Articles in international journals

- [6] Patricia Bouyer, Nicolas Markey, Mickael Randour, Kim G. Larsen, and Simon Laursen. Average-energy games. *Acta Informatica*, 2016. To appear.
- [7] Patricia Bouyer, Nicolas Markey, and Steen Vester. Nash equilibria in symmetric graph games with partial observation. *Information and Computation*, 2016. To appear.
- [8] Patricia Bouyer, Patrick Gardy, and Nicolas Markey. On the semantics of strategy logic. *Information Processing Letters*, 116(2):75–79, February 2016.
- [9] Patricia Bouyer, Romain Brenguier, Nicolas Markey, and Michael Ummels. Pure Nash equilibria in concurrent games. *Logical Methods in Computer Science*, 11(2:9), June 2015.
- [10] Patricia Bouyer, Nicolas Markey, and Ocan Sankur. Robust reachability in timed automata and games: A game-based approach. *Theoretical Computer Science*, 563:43–74, January 2015.
- [11] Nathalie Bertrand, Patricia Bouyer, Thomas Brihaye, Quentin Menet, Christel Baier, Marcus Größer, and Marcin Jurdziński. Stochastic timed automata. *Logical Methods in Computer Science*, 10(4:6), December 2014.

- [12] Patricia Bouyer, Kim G. Larsen, and Nicolas Markey. Lower-bound constrained runs in weighted timed automata. *Performance Evaluation*, 73:91–109, March 2014.
- [13] Ocan Sankur, Patricia Bouyer, and Nicolas Markey. Shrinking timed automata. *Information and Computation*, 234:107–132, February 2014.
- [14] Patricia Bouyer, Nicolas Markey, Joël Ouaknine, Philippe Schnoebelen, and James Worrell. On termination and invariance for faulty channel systems. *Formal Aspects of Computing*, 24(4-6):595–607, July 2012.
- [15] Patricia Bouyer, Uli Fahrenberg, Kim G. Larsen, and Nicolas Markey. Quantitative analysis of real-time systems using priced timed automata. *Communications of the ACM*, 54:78–87, September 2011.
- [16] Patricia Bouyer, Franck Cassez, and François Laroussinie. Timed modal logics for real-time systems: Specification, verification and control. *Journal of Logic, Language and Information*, 20(2):169–203, April 2011.
- [17] Patricia Bouyer, Fabrice Chevalier, and Nicolas Markey. On the expressiveness of TPTL and MTL. *Information and Computation*, 208(2):97–116, February 2010.
- [18] Patricia Bouyer, Thomas Brihaye, and Fabrice Chevalier. O-minimal hybrid reachability games. *Logical Methods in Computer Science*, 6(1:1), January 2010.
- [19] Patricia Bouyer, Serge Haddad, and Pierre-Alain Reynier. Undecidability results for timed automata with silent transitions. *Fundamenta Informaticae*, 92(1-2):1–25, 2009.
- [20] Patricia Bouyer, Thomas Brihaye, and Fabrice Chevalier. Weighted o-minimal hybrid systems. *Annals of Pure and Applied Logics*, 161(3):268–288, December 2009.
- [21] Patricia Bouyer, Kim G. Larsen, and Nicolas Markey. Model checking one-clock priced timed automata. *Logical Methods in Computer Science*, 4(2:9), June 2008.
- [22] Patricia Bouyer, Ed Brinksma, and Kim G. Larsen. Optimal infinite scheduling for multi-priced timed automata. *Formal Methods in System Design*, 32(1):2–23, February 2008.
- [23] Patricia Bouyer, Serge Haddad, and Pierre-Alain Reynier. Timed Petri nets and timed automata: On the discriminating power of Zeno sequences. *Information and Computation*, 206(1):73–107, January 2008.
- [24] Patricia Bouyer, Thomas Brihaye, Véronique Bruyère, and Jean-François Raskin. On the optimal reachability problem on weighted timed automata. *Formal Methods in System Design*, 31(2):135–175, October 2007.
- [25] Gerd Behrmann, Patricia Bouyer, Kim G. Larsen, and Radek Pelánek. Lower and upper bounds in zone-based abstractions of timed automata. *International Journal on Software Tools for Technology Transfer*, 8(3):204–215, June 2006.
- [26] Patricia Bouyer, Thomas Brihaye, and Nicolas Markey. Improved undecidability results on priced timed automata. *Information Processing Letters*, 98(5):188–194, June 2006.

- [27] Patricia Bouyer and Fabrice Chevalier. On the control of timed and hybrid systems. *EATCS Bulletin*, 89:79–96, June 2006.
- [28] Patricia Bouyer and Fabrice Chevalier. On conciseness of extensions of timed automata. *Journal of Automata, Languages and Combinatorics*, 10(4):393–405, 2005.
- [29] Patricia Bouyer, Catherine Dufourd, Emmanuel Fleury, and Antoine Petit. Updatable timed automata. *Theoretical Computer Science*, 321(2-3):291–345, August 2004.
- [30] Béatrice Bérard, Patricia Bouyer, and Antoine Petit. Analysing the PGM protocol with Up-paal. *International Journal of Production Research*, 42(14):2773–2791, July 2004.
- [31] Patricia Bouyer. Forward analysis of updatable timed automata. *Formal Methods in System Design*, 24(3):281–320, May 2004.
- [32] Luca Aceto, Patricia Bouyer, Augusto Burgueño, and Kim G. Larsen. The power of reachability testing for timed automata. *Theoretical Computer Science*, 300(1-3):411–475, May 2003.
- [33] Patricia Bouyer, Antoine Petit, and Denis Thérien. An algebraic approach to data languages and timed languages. *Information and Computation*, 182(2):137–162, May 2003.
- [34] Patricia Bouyer and Antoine Petit. A Kleene/Büchi-like theorem for clock languages. *Journal of Automata, Languages and Combinatorics*, 7(2):167–186, 2002.
- [35] Patricia Bouyer. A logical characterization of data languages. *Information Processing Letters*, 84(2):75–85, October 2002.

Articles in proceedings of international conferences

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