

Nicolas Markey

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Birth date: September 11th, 1976
French citizen

Curriculum Vitae

- ▶ **2016-** CNRS senior researcher at IRISA (*Institut de Recherche en Informatique et Systèmes Aléatoires*), UMR 6074, CNRS & INRIA & Univ. Rennes 1.
- ▶ **2004-2016** CNRS full-time researcher at LSV (*Lab. Spécification et Vérification*), UMR 8643, ENS Cachan & CNRS.
 - ▷ **2011: Habilitation thesis:** “Verification of Embedded Systems: Algorithms and Complexity”.
Reviewers: Eugene ASARIN, Thomas A. HENZINGER, Wolfgang THOMAS
- ▶ **2003-2004** INRIA Post-doctoral researcher at the Computer Science Department of *Université Libre de Bruxelles*, in Jean-François Raskin’s team “Formal Methods and Verification”.
- ▶ **2000-2003** “*Allocataire Moniteur Normalien*” (PhD student) in Computer Science at LIFO (*Laboratoire d’Informatique Fondamentale d’Orléans*).
 - ▷ **2003: PhD thesis:** “Temporal Logics for Verification: Expressiveness, Complexity, Algorithms”, supervised by François LAROUSSINIE and Philippe SCHNOEBELEN.
Reviewers: Ahmed BOUAJJANI, Colin STIRLING
- ▶ **1996-2000** Student at *École Normale Supérieure de Cachan*.
 - ▷ **2000:** “*D.E.A.*” in Computer Science (ENS Cachan & University Paris VII). Master’s thesis at LSV: “Complexity of temporal logics with past”, supervised by François LAROUSSINIE and Philippe SCHNOEBELEN.
 - ▷ **1999:** “*Agrégation*” in mathematics.
 - ▷ **1998:** “*Maîtrise*” in mathematics, university Paris 7.
“*Maîtrise*” in computer science, university Paris 7.
 - ▷ **1997:** “*Licence*” in mathematics, *École Normale Supérieure de Cachan*.

Research topics:

- formal verification (model checking) especially for real-time systems
- temporal logics for model checking
- games on graphs for the synthesis of complex systems

Publications : 25+ papers in international journals and 75+ papers in international conferences. The full list of my publications is given in the appendix.

Teaching

PhD. Schools

- *Temporal logics for multi-agent systems: expressiveness and algorithms*, introductory course at ESSLLI'15, joint lecture with François Laroussinie.
- *Real-time model checking*, course at the ARTIST school QMC'10, joint lecture with Patricia Bouyer and Kim G. Larsen;
- *Timed Systems – Model Checking and Games*, course at summer school MOVEP'08;
- *Implementability of Timed Controllers*, course at summer school ETR'07, joint lecture with Franck Cassez;
- *Expressiveness of temporal logics*, introductory course at ESSLLI'06, joint lecture with François Laroussinie.

Lectures

- *Computability and Complexity*, lecture for students preparing the *agrégation* in mathematics (ENS Rennes), 2020;
- *Algorithmics*, lecture for students preparing the *agrégation* in mathematics (ENS Rennes), 2018-2020;
- *Timed automata*, part 2 of course *Verification of Complex Systems* at Master2 SIF (Rennes), 2017-2019;
- *Extensions of timed automata*, course M2.8.2 at Master2 MPRI (Paris), Jan.-Feb. 2016;
- *Temporal logics*, part 2 of course M2.8 at Master2 MPRI (Paris), Winter 2013;
- *Timed and hybrid automata*, part 1 of course M2.8 at Master2 MPRI (Paris), Fall 2010;
- *Weighted timed automata*, part 2 of course M2.8 at Master2 MPRI (Paris), Fall 2008;
- *Branching-time temporal logics*, part 1b of course M2.8 at Master2 MPRI (Paris), oct. 2007;
- *Temporal logics*, part 1 of course M2.8 at Master2 MPRI (Paris), Fall 2006;

Master and PhD students

Post-docs (8)

- Vincent Jugé, feb. 2016-sep. 2016 (co-advised with Patricia Bouyer);
- Amélie David, oct. 2015-aug. 2016
- Maximilien Colange, sep. 2015-aug. 2016 (co-advised with Patricia Bouyer);
- Mickael Randour, oct. 2014-sep. 2015 (co-advised with Patricia Bouyer);
- Raj Mohan Mattheplackel, may 2013-may 2015 (co-advised with Patricia Bouyer);
- Michael Ummels, jan. 2010-nov. 2011 (co-advised with Patricia Bouyer);
- Delphine Longuet, oct. 2008-sep. 2009 (co-advised with Patricia Bouyer);
- Thomas Brihaye, sep. 2006-aug. 2007 (co-advised with Patricia Bouyer).

PhD students (4 on-going, 8 defended, 1 abandonned)

- Emily Clement, PhD student on “Verification and synthesis of control systems: efficiency and robustness”, nov. 2018- (co-advised with Thierry Jéron and David Mentré).
- Léo Henry, PhD student on “Optimal test-case generation with game theory”, oct. 2018- (co-advised with Thierry Jéron).
- Suman Sadhukhan, PhD student on “Modelling and parameterized verification of mobile networks”, oct. 2018- (co-advised with Nathalie Bertrand and Ocan Sankur).
- Victor Roussanaly, PhD student on “Efficient verification of real-time systems”, sep. 2017-nov. 2020 (co-advised with Ocan Sankur). PhD defended on 30 November 2020.
- Mauricio González, PhD student on “Stochastic Games on Graphs with Applications to Smart-Grids Optimization”, mar. 2016-nov. 2019 (co-advised with Patricia Bouyer and Samson Lasaulce). PhD defended on 29 November 2019.
- Samy Jaziri, PhD student on “Automata on Timed Structures”, oct. 2015-sep. 2019 (co-advised with Patricia Bouyer). PhD defended on 24 September 2019.

- Patrick Gardy, PhD student on “semantics of Strategy Logic”, nov. 2013-jun. 2017 (co-advised with Patricia Bouyer). PhD defended on 12 June 2017.
- Daniel Stan, “randomized strategies in concurrent games”, oct. 2013-mar. 2017 (co-advised with Patricia Bouyer). PhD defended on 30 March 2017.
- Eleni-Maria Vretta, PhD student on “quantitative temporal logics for measuring quality of computerised systems”, jan. 2013-may 2013. (co-advised with Patricia Bouyer). Not defended.
- Ocan Sankur, “robust verification of timed systems”, oct. 2010-may 2013 (co-advised with Patricia Bouyer). PhD defended on 24 May 2013.
- Romain Brenguier, “equilibria in timed games”, oct. 2009-nov. 2012 (co-advised with Patricia Bouyer). PhD defended on 29 November 2012.
- Arnaud Da Costa Lopes, “properties of multi-player games”, oct. 2007-sep. 2011 (co-advised with François Laroussinie). PhD defended on 20 September 2011.
- Ghassan Oreiby, “temporal logics for timed control”, oct. 2005-dec. 2008 (co-advised with François Laroussinie). PhD defended on 08 December 2008.

Visiting PhD students

- Simon Laursen, PhD student at Aalborg University (Denmark). 3-month visit (sep.-dec. 2014) on "average-energy constraints in weighted systems".
- Steen Vester, PhD student at DTU, Copenhagen (Denmark). 1-month visit (jul. 2013) on "symmetric games".
- Jörg Olschewski, PhD student at Aachen University (Germany). 6-month visit (mar.-sep. 2010) on "mixing qualitative and quantitative objectives in weighted games".
- Claus Thrane, PhD student at Aalborg University (Denmark). 6-month visit (feb.-aug. 2010) on "links between robustness and metrics in timed automata".

Engineers

- Reiya Noguchi, engineer at Mitsubishi Electric RCE (Rennes, France). "detecting and fixing inconsistencies in timed requirements"; co-advised with Thierry Jéron, David Mentré, Ocan Sankur.

Master students

- Léo Henry, Master student on "Test-case generation for timed systems", 2018 (co-advised with Thierry Jéron).
- Aina Toky Rasoamanana, Master student on "Quantitative analysis of parameterized networks", 2017 (co-advised with Nathalie Bertrand).
- Victor Roussanaly, Master student on "abstraction refinements for timed systems", 2017 (co-advised with Ocan Sankur).
- Mauricio González, Master student on "Nash equilibria in partial-observation games", 2015 (co-advised with Patricia Bouyer and Samson Lasaulce).
- Samy Jaziri, Master student on "robust verification of weighted timed automata", 2014 (co-advised with Patricia Bouyer).
- Daniel Stan, Master student on "mixed Nash equilibria in concurrent games", 2013 (co-advised with Patricia Bouyer).
- Steen Vester, Master student on "equilibria in symmetric games", 2012 (co-advised with Patricia Bouyer).
- Ocan Sankur, Master student on "robustness and implementability of timed systems", 2010 (co-advised with Patricia Bouyer).
- Romain Brenguier, Master student on "equilibria in timed games", 2009 (co-advised with Patricia Bouyer).
- Arnaud Da Costa Lopes, Master student on "properties of multi-player games", 2007 (co-advised with François Laroussinie).
- Guylain Naves, Master student on "complexity of the reachability problem for two-clock timed automata", 2006 (co-advised with Patricia Bouyer).

Undergraduate students

- Pierre Bourse, M1 student at ENS Rennes, on "Learning timed automata", sep. 2020-apr. 2021 (co-advised with Loïc Hélouët).
- Ritam Raha, student at CMI (Chennai, India), on "Quantitative aspects of active opacity", sep-dec. 2018 (co-advised with Loïc Hélouët).
- Ludovic Landuré, M1 student at Rennes University, on "modelling and verification of Ladder programs", may-jul. 2018 (co-advised with Thierry Jéron and Ocan Sankur).
- A. R. Balasubramanian, student at CMI (Chennai, India), on "analysis of reconfigurable networks with quantitative constraints", may-jul. 2017 (co-advised with Nathalie Bertrand).
- Samuel Dehouck, student at ULB (Brussels, Belgium), on "implementation of an algorithm for solving 1-clock priced timed games", jul.-oct. 2014.
- Bhargav N. Bhatt, master student at I.I.T. Kanpur (India), on "Nash Equilibria in Pushdown Games with Reachability Objectives", may-jul. 2014 (co-advised with Patricia Bouyer).
- Erwin Fang, student at ENS Cachan, on "multi-strategies in timed games", mar.-aug. 2013 (co-advised with Patricia Bouyer).
- Gabriel Renault, student at ENS Lyon, on "optimal multi-strategies", 2008 (co-advised with Patricia Bouyer).
- Mohamed Ghannem, student at National School of Computer Science of Tunis (Tunisia), on "computing optimal coalitions", 2007.
- Lionel Rieg, student at ENS Lyon, on "quantitative games and optimal coalitions", 2007.

PhD committees

- Reviewer:
 - Ian Cassar: *Developing Theoretical Foundations for Runtime Enforcement*. (PhD advisors: Luca Aceto, Adrian Francalanza, and Anna Ingólfssdóttir (Reykjavík University, Iceland and Malta University, Malta); defense: 3 November 2020)
 - Nicola Gigante: *Timeline-based planning: Expressiveness and complexity*. (PhD advisor: Angelo Montanari (Università degli Studi di Udine, Italy); defense: 3 March 2019)
 - Benedikt Brütsch: *Strategies in Infinite Games: Structured Reactive Programs and Transducers over Infinite Alphabets*. (PhD advisor: Wolfgang Thomas (RWTH Aachen, Germany); defense: 20 December 2018)
 - Petr Bezděk: *Parameter Synthesis for Systems with Real Time*. (PhD advisor: Ivana Černá (Masaryk University, Brno, Czech Republic); defense: 9 March 2018)
 - Thanh-Tung Tran: *Verification of timed automata: reachability, liveness, and modelling*. (PhD advisors: Frédéric Herbretreau, Igor Walukiewicz (LaBRI, Bordeaux, France); defense: 4 November 2016)
 - Christophe Chareton: *Formal modelling of requirements and multi-agent temporal logics*. (PhD advisors: Julien Brunel, David Chemouil (ONERA, Toulouse, France); defense: 20 June 2014)
 - Marcus Gelderie: *Strategy machines: representation and complexity of strategies in infinite games*. (PhD advisor: Wolfgang Thomas (RWTH, Aachen, Germany); defense: 6 february 2014).
 - Aleksandra Jovanović: *Parametric Verification of Timed Systems*. (PhD advisors: Didier Lime, Olivier H. Roux (IRCCyN, Nantes, France); defense: 10 October 2013).
 - Jörg Olschewski: *Languages and strategies: a study of regular infinite games*. (PhD advisor: Wolfgang Thomas (RWTH, Aachen, Germany); defense: 25 January 2013).
- Jury member:
 - Morgane Estievenart: *Verification and synthesis of MITL through alternating timed automata*. (PhD advisors: Thomas Brihaye (U. Mons, Belgium), Gilles Geeraerts (ULB, Brussels, Belgium); defense: 15 September 2015).
 - Janusz Malinowski: *Algorithmes pour la synthèse et le model checking*. (PhD advisor: Peter Niebert (LIF, Marseille, France); defense: 10 December 2012).
 - Martin De Wulf: *From Timed Automata to Timed Implementations*. (PhD advisor: Jean-François Raskin (ULB, Brussels, Belgium); defense: 20 December 2006).

Talks and seminars

- Conference presentations: FoSSaCS'01, FoSSaCS'02, EXPRESS'02, Concur'03, FORMATS+FTRTFT'04, Concur'04, QEST'04, FSTTCS'05, FSTTCS'06, FORMATS'07, TIME'08, FORMATS'08, FSTTCS'10, SIES'11, Highlights'13, FSTTCS'14, GandALF'15, STACS'18, RV'18, GandALF'19.
- Seminars: IRISA (Rennes, France), Dagstuhl (Dagstuhl, Germany), ULB (Brussels, Belgium), LACL (Créteil, France), RWTH (Aachen, Germany), DCIS (Konstanz, Germany), EPFL (Lausanne, Switzerland), LIAFA (Paris, France), LaBRI (Bordeaux, France), VERIMAG (Grenoble, France), OUCL (Oxford, UK), ANU (Canberra, Australia), ...
- Invited talks:
 - *Temporal logics for multi-agent systems*, conference MFCS'17 (Aalborg, Denmark, Aug. 2017);
 - *Optimal strategies in weighted timed games: undecidability and approximation*, workshop WATA'16 (Aalborg, Denmark, Apr. 2016);
 - *Optimal strategies in weighted timed games: undecidability and approximation*, workshop AVERTS'15 (Bangalore, India, dec. 2015);
 - *Priced timed automata and games*, "GT Verif" annual days (Créteil, France, 15-16 June 2015);
 - *Temporal logics for multi-player games*, French Symposium on Games (Paris, France, May 2015);
 - *Temporal logics for multi-agent systems*, "formalisation des activités concurrentes" days (Toulouse, France, 16-17 April 2014);
 - *Robustness issues in timed models*, 12th International Workshop Quantitative Aspects of Programming Languages and Systems (QAPL'14) (Grenoble, France, 12-13 April 2014);
 - *Robust verification of timed systems*, journée industrielle DigiCosme (Saclay, France, Feb. 2013);
 - *Temporal logics for multi-agent systems*, journées nationales du GDR Informatique Mathématique (Lyon, France, Jan. 2013);
 - *Robustness in Real-Time Systems*, 6th IEEE International Symposium on Industrial Embedded Systems (SIES'11), special session on robustness (Västerås, Sweden, Jun. 2011);

Participation to projects

Running projects:

- head of Associate Team QuaSL (*Quantitative Strategy Logics*), 2020-2022;
- Member of project ANR TickTac (2018-2022);

Past projects:

- Member of project ERC-StG-308087 EQualIS ("Enhancing the Quality of Interacting Systems") (2013-2019);
- Coordinator of the European project FP7-ICT-601148 CASSTING ("Collective Adaptive System Synthesis Using Non-zero-sum Games")(2013-2016);
- Member of project ANR-2010-BLAN-0317 ImpRo ("Implementability and Robustness") (2011-2014);
- Member (and local manager for CNRS) of the European project FP7-ICT-214755 QUASIMODO ("Quantitative System Properties in Model-Driven Design of Embedded Systems")(2008-2011);
- Member (and local manager for CNRS) of the European project ESF-Eurocores GASICS ("Games for Analysis and Synthesis of Interactive Computational Systems")(2008-2011);
- Member (LSV coordinator) of project ANR-06-SETI-003 DOTS ("Distributed, Open and Timed Systems") (2007-2011);
- Co-head of project IFR Farman TOAST2 ("Théorie des jeux, Outils de l'automatique, de l'Algorithmique et du Signal pour les Télécommunications") (2008-2009);
- Co-head of project IFR Farman TOAST ("Théorie des jeux, Outils de l'automatique, de l'Algorithmique et du Signal pour les Télécommunications") (2007-2008);
- Member of ACI CORTOS ("Control and Observation of Real-Time Open Systems") (2003-2006);

Conference organization, editorial committees

Steering Committee

- Steering committee member of the Young-Researcher School MOVEP (2012-);

Editorial board

- Member of editorial board of journal *Technique et Science Informatique (Lavoisier)* (2012-2015);

Program Committees

- Program Committee co-chair of conferences FORMATS'16, TIME'10, of workshop SR'18;
- Program Committee Member of conferences RV'21, LATA'20-21, RV'20, ATVA'17, FORMATS'17, SR'17, TACAS'16, RP'16, FORMATS'15, SR'15, RP'14, FORMATS'14, GandALF'14, SR'13, FSTTCS'12, FORMATS'12, GandALF'12, TIME'11, TIME'09, FORMATS'07, FORMATS'06.

Conference organization

- Organizer of the TIME'10 conference (Paris, France, Sep. 2010)
- Co-organizer of Dagstuhl seminar on *Non-Zero-Sum-Games and Control* (seminar 15061, feb 2015)
- Co-organizer of workshops Cassting'16 (Eindhoven, Netherlands), Cassting'14 (Grenoble, France), GASICS'12 (Newcastle, UK), GASICS'11 (Aachen, Germany, Sep. 2011), GASICS'10 (Paris, France, Sep. 2010) and GASICS'09 (Grenoble, France, June 2009)
- Member of the organizing committee (maintainance of web site and registration server) for conference FORMATS'06 (Cachan, France, Sep. 2006), winter school MOVEP'04 (Brussels, Belgium, Dec. 2004), workshop INFINITY'03 (Marseilles, France, Aug. 2003), summer school MOVEP'02 (Nantes, France, June 2002), conference CSL'01 (Paris, France, Sep. 2001), conference CAV'01 (Paris, France, July 2001).

Article reviews

- Article reviews for main conferences in theoretical computer science: LICS, FOCS, ICALP, STACS, Concur, FSTTCS, TACAS, FoSSaCS, MFCS, ...
- Article reviews for several journals: I&C, TCS, LMCS, Acta Inf., ToCL, FMSD, JCSS, IJFCS, IEEE TAC, IPL, ...

Animation and management activities

- Head of VASCO research group (formerly TEMPO) at LSV (2009-2016);
- Organizer of the VASCO internal seminar (2007-2015);
- Member of the steering committee of LSV (2004-2016);
- Elected member of the Conseil Scientifique of ENS Cachan (2011-2015);
- Member of the committee in charge of Information Systems Security at ENS Cachan (2015-2016);
- Member of the steering committee of “Institut Farman” (federation of five laboratories of ENS Cachan working on complex systems) (2013-2014);
- Member of a “comité de sélection” (recruiting jury) in computer science at University Paul Sabatier (Toulouse) in 2014;
- Member of a “comité de sélection” (recruiting jury) in computer science at University Pierre-et-Marie-Curie (Paris) in 2013;
- Member of a “comité de sélection” (recruiting jury) in mechanical engineering at ENS Cachan in 2012;
- Member of a “comité de sélection” (recruiting jury) in Computer Science at University Paris Nord in 2011;
- Member of the “comité de sélection” (recruiting jury) for the chair INRIA/ENS Cachan in 2009;
- Member of the “commission de spécialistes” in Computer Science, ENS Cachan (2007-2008);

Collective activities

- In charge (together with Anne Siegel) of the mentoring programme at IRISA and Inria Rennes-Bretagne Atlantique (2018-).
- Head of group “systems” of LSV, about the evolutions of the computer systems and networks (2004-2016);
- Author and maintainer (2004-2016) of the publication list system at LSV (Bib \TeX , PHP);
- Head of the group “database tools” at LSV, whose aim is to design and maintain tools for managing several databases of the lab (list of members, list of books at the library, ...) (PHP, MySQL) (2008-2014);
- Author of the "ordre de mission" management tool at LSV (\LaTeX , PHP, javascript);
- Head of InstSoft/SOS group (software updates, LSV "hotline") from 2004 to 2010.

Stays in foreign countries

- Several short stays at Aalborg University (Denmark), *Université Libre de Bruxelles* (Belgium), RWTH Aachen (Germany).
- 1-year post-doctoral stay (Sep. 2003–Sep. 2004) at *Université Libre de Bruxelles*, Belgium.
- 4-week stay (Jan-Feb. 2003) in Australia (Department of Electrical and Electronic Engineering, University of Melbourne and Computer Sciences Laboratory, Australian National University in Canberra).

Miscellaneous

- Co-author of the French \LaTeX F.A.Q., author of a Bib \TeX documentation, author of several \LaTeX packages.

Appendix: list of publications

Edited books

- [BDJ⁺16] Thomas Brihaye, Benoît Delahaye, Loïc Jezequel, Nicolas Markey, and Jiří Srba, editors. *Proceedings of the Cassting Workshop on Games for the Synthesis of Complex Systems (Cassting'16) and of the 3rd International Workshop on Synthesis of Complex Parameters (SynCoP'16)*, EPTCS 220, July 2016.
- [FM16] Martin Fränzle and Nicolas Markey, editors. *Proceedings of the 14th International Conferences on Formal Modelling and Analysis of Timed Systems (FORMATS'16)*, LNCS 9884. Springer, August 2016.
- [MW10] Nicolas Markey and Jef Wijsen, editors. *Proceedings of the 17th International Symposium on Temporal Representation and Reasoning (TIME'10)*. IEEE Comp. Soc. Press, September 2010.
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Chapters in books

- [BFL⁺18] Patricia Bouyer, Uli Fahrenberg, Kim Guldstrand Larsen, Nicolas Markey, Joël Ouaknine, and James Worrell. Model checking real-time systems. In *Handbook of Model Checking*, chapter 29, pages 1001–1046. Springer, May 2018.
- [BLM⁺17] Patricia Bouyer, François Laroussinie, Nicolas Markey, Joël Ouaknine, and James Worrell. Timed temporal logics. In *Models, Algorithms, Logics and Tools: Essays Dedicated to Kim Guldstrand Larsen on the Occasion of His 60th Birthday*, LNCS 10460, pages 211–230. Springer, Aalborg, Denmark, August 2017.
- [CM09] Franck Cassez and Nicolas Markey. Control of timed systems. In *Communicating Embedded Systems – Software and Design*, chapter 3, pages 83–120. Wiley-ISTE, October 2009.
- [CM08] Franck Cassez and Nicolas Markey. Contrôle des systèmes temporisés. In *Approches formelles des systèmes embarqués communicants*, chapter 4, pages 105–144. Hermès, October 2008.
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Invited talks and papers, tutorials

- [Mar17] Nicolas Markey. Temporal logics for multi-agent systems (invited talk). In MFCS'17, LIPIcs 84, pages 84:1–84:3. LZI, August 2017.
- [BMS13b] Patricia Bouyer, Nicolas Markey, and Ocan Sankur. Robustness in timed automata. In RP'13, LNCS 8169, pages 1–18. Springer, September 2013.
- [Mar11] Nicolas Markey. Robustness in real-time systems. In SIES'11, pages 28–34. IEEE Comp. Soc. Press, June 2011.

International Journals

- [BBF⁺21] Giovanni Bacci, Patricia Bouyer, Uli Fahrenberg, Kim Guldstrand Larsen, Nicolas Markey, and Pierre-Alain Reynier. Optimal and robust controller synthesis using energy timed automata with uncertainty. *Formal Aspects of Computing*, 33(1):3–25, January 2021.
- [BHJ⁺21] Patricia Bouyer, Léo Henry, Samy Jaziri, Thierry Jéron, and Nicolas Markey. Efficient timed diagnosis using automata with timed domains. *International Journal on Software Tools for Technology Transfer*, 2021. To appear.
- [ALM20] Étienne André, Didier Lime, and Nicolas Markey. Language-preservation problems in parametric timed automata. *Logical Methods in Computer Science*, 16(1), January 2020.
- [GBM20] Patrick Gardy, Patricia Bouyer, and Nicolas Markey. Dependences in strategy logic. *Theory of Computing Systems*, 64(3):467–507, April 2020.
- [LFM⁺18] Adrien Le Coënt, Laurent Fribourg, Nicolas Markey, Florian De Vuyst, and Ludovic Chamoin. Distributed synthesis of state-dependent switching control. *Theoretical Computer Science*, 750:53–68, November 2018.
- [BMR⁺18] Patricia Bouyer, Nicolas Markey, Mickael Randour, Kim Guldstrand Larsen, and Simon Laursen. Average-energy games. *Acta Informatica*, 55(2):91–127, March 2018.
- [BMPS17] Patricia Bouyer, Nicolas Markey, Nicolas Perrin, and Philipp Schlehücker-Caissier. Timed automata abstraction of switched dynamical systems using control funnels. *Real-Time Systems*, 53(3):327–353, May 2017.
- [BMV17] Patricia Bouyer, Nicolas Markey, and Steen Vester. Nash equilibria in symmetric graph games with partial observation. *Information and Computation*, 254(2):238–258, June 2017.
- [BGM16] Patricia Bouyer, Patrick Gardy, and Nicolas Markey. On the semantics of strategy logic. *Information Processing Letters*, 116(2):75–79, February 2016.
- [BMS15] 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.
- [BBMU15] 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.
- [LM15] François Laroussinie and Nicolas Markey. Augmenting ATL with strategy contexts. *Information and Computation*, 245:98–123, December 2015.
- [SBM14] Ocan Sankur, Patricia Bouyer, and Nicolas Markey. Shrinking timed automata. *Information and Computation*, 234:107–132, February 2014.
- [LM14] François Laroussinie and Nicolas Markey. Quantified CTL: expressiveness and complexity. *Logical Methods in Computer Science*, 10(4), December 2014.
- [BLM14] Patricia Bouyer, Kim Guldstrand Larsen, and Nicolas Markey. Lower-bound constrained runs in weighted timed automata. *Performance Evaluation*, 73:91–109, March 2014.
- [BMO⁺12] 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.

- [BFLM11] Patricia Bouyer, Uli Fahrenberg, Kim Guldstrand Larsen, and Nicolas Markey. Quantitative analysis of real-time systems using priced timed automata. *Communications of the ACM*, 54(9):78–87, September 2011.
- [BJL⁺10] Thomas Brihaye, Marc Jungers, Samson Lasaulce, Nicolas Markey, and Ghassan Oreiby. Using model checking for analyzing distributed power control problems. *EURASIP Journal on Wireless Communications and Networking*, 2010(861472), June 2010.
- [BCM10] Patricia Bouyer, Fabrice Chevalier, and Nicolas Markey. On the expressiveness of TPTL and MTL. *Information and Computation*, 208(2):97–116, February 2010.
- [DDMR08] Martin De Wulf, Laurent Doyen, Nicolas Markey, and Jean-François Raskin. Robust safety of timed automata. *Formal Methods in System Design*, 33(1-3):45–84, December 2008.
- [LMO08] François Laroussinie, Nicolas Markey, and Ghassan Oreiby. On the expressiveness and complexity of ATL. *Logical Methods in Computer Science*, 4(2), May 2008.
- [BLM08] Patricia Bouyer, Kim Guldstrand Larsen, and Nicolas Markey. Model checking one-clock priced timed automata. *Logical Methods in Computer Science*, 4(2), May 2008.
- [MS06] Nicolas Markey and Philippe Schnoebelen. Mu-calculus path checking. *Information Processing Letters*, 97(6):225–230, March 2006.
- [MR06] Nicolas Markey and Jean-François Raskin. Model checking restricted sets of timed paths. *Theoretical Computer Science*, 358(2-3):273–292, August 2006.
- [BBM06] Patricia Bouyer, Thomas Brihaye, and Nicolas Markey. Improved undecidability results on weighted timed automata. *Information Processing Letters*, 98(5):188–194, June 2006.
- [LMS06] François Laroussinie, Nicolas Markey, and Philippe Schnoebelen. Efficient timed model checking for discrete-time systems. *Theoretical Computer Science*, 353(1-3):249–271, March 2006.
- [MS04] Nicolas Markey and Philippe Schnoebelen. A PTIME-complete matching problem for SLP-compressed words. *Information Processing Letters*, 90(1):3–6, April 2004.
- [Mar04] Nicolas Markey. Past is for free: On the complexity of verifying linear temporal properties with past. *Acta Informatica*, 40(6-7):431–458, May 2004.
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