**D7 - Research Opportunity and Performance Evidence (ROPE) – Publications**

**ii. Publication list:**

It is standard in my field to **order authors alphabetically**. That said, my contribution to each of the listed publications always meets, and **typically far exceeds**, an equal division of labour. The cited bibliometrics are as follows: conferences are given their ERA letter ranking (http://www.conferenceranks.com/) and CORE letter ranking (http://portal.core.edu.au/conf-ranks/), followed by the acceptance rate and number of submissions (where available); journals are given their SJR letter ranking (http://www.scimagojr.com/journalrank.php) at time of publication (if a ranking is not available for the current year, then an average of the last 5 years is taken).

**Authored books**

[B1] Roderick Bloem, Swen Jacobs, Ayrat Khalimov, Igor Konnov, Sasha Rubin, Helmut Veith, and Josef Widder. Decidability of Parameterized Verification. Synthesis Lectures on Distributed Computing Theory. Morgan & Claypool Publishers, 2015. doi: 10.2200/S00658ED1V01Y201508DCT013.

**Authored book chapter**

[BC1] Vince Bárány, Erich Grädel, and Sasha Rubin. “Automata-based presentations of infinite structures”. In: Finite and Algorithmic Model Theory. Ed. by Javier Esparza, Christian Michaux, and Charles Steinhorn. London Mathematical Society Lecture Note Series 379. Cambridge Books Online. Cambridge University Press, 2011, pp. 1–76. isbn: 978-0-521-71820-2.

**Refereed Journal articles**

[J1] Benjamin Aminof, Tomer Kotek, Sasha Rubin, Francesco Spegni, and Helmut Veith. “Parameterized model checking of rendezvous systems”. In: Distributed Computing (2017), pp. 1–36. doi: 10.1007/s00446-017-0302-6. **SJR Q2**

[J2] Benjamin Aminof, Vadim Malvone, Aniello Murano, and Sasha Rubin. “Graded Strategy Logic”. In: Information and Computation (2017). Accepted 8/10/17. **SJR Q2**

[J3] Benjamin Aminof and Sasha Rubin. “First Cycle Games”. In: Information and Computation (2017),Volume 254, Part 2, Pages 195-216. doi: http://dx.doi.org/10.1016/j.ic.2016.10.008. **SJR Q2**

[J4] Roderick Bloem, Swen Jacobs, Ayrat Khalimov, Igor Konnov, Sasha Rubin, Helmut Veith, and Josef

Widder. “Decidability in Parameterized Verification”. In: SIGACT News 47.2 (2016), pp. 53–64. doi:

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[J5] Andrey Grinshpun, Pakawat Phalitnonkiat, Sasha Rubin, and Andrei Tarfulea. “Alternating traps in

Muller and parity games”. In: Theoretical Computer Science 521 (2014), pp. 73–91. doi: 10.1016/

j.tcs.2013.11.032. **SJR Q2**

[J6] Sasha Rubin. “Automata Presenting Structures: A Survey of the Finite String Case”. In: Bulletin of

Symbolic Logic 14.2 (2008), pp. 169–209. **SJR Q1**

[J7] Bakhadyr Khoussainov, André Nies, Sasha Rubin, and Frank Stephan. “Automatic Structures: Richness and Limitations”. In: Logical Methods in Computer Science 3.2 (2007). doi: 10.2168/LMCS-3(2:2)2007. **SJR Q1**

[J8] Bakhadyr Khoussainov, Sasha Rubin, and Frank Stephan. “Automatic linear orders and trees”. In: ACM Transactions on Computational Logic 6.4 (2005), pp. 675–700. doi: 10.1145/1094622.1094625.

**SJR Q1**

[J9] Bakhadyr Khoussainov and Sasha Rubin. “Automatic Structures: Overview and Future Directions”.

In: Journal of Automata, Languages and Combinatorics 8.2 (2003), pp. 287–301.

[J10] Bakhadyr Khoussainov and Sasha Rubin. “Graphs with Automatic Presentations over a Unary

Alphabet”. In: Journal of Automata, Languages and Combinatorics 6.4 (2001), pp. 467–480.

**Fully refereed conference proceedings**

[C1] Benjamin Aminof, Ilina Stoilkovska, Sasha Rubin, Josef Widder, and Florian Zuleger. “Parameterized Model Checking of Synchronous Distributed Algorithms by Abstraction”. In: International Conference on Verification, Model Checking, and Abstract Interpretation (VMCAI’18). Accepted 14/11/2017.

**ERA B/CORE B**

[C2] Francesco Belardinelli, Alessio Lomuscio, Aniello Murano, and Sasha Rubin. “Verification of Broadcasting Multi-Agent Systems against an Epistemic Strategy Logic”. In: International Joint Conference on Artificial Intelligence (IJCAI 2017). 2017. doi: DOI10.24963/ijcai.2017/14.

**ERA A/CORE A\*, 25%, 2540**

[C3] Francesco Belardinelli, Alessio Lomuscio, Aniello Murano, and Sasha Rubin. “Verification of Multi-

agent Systems with Imperfect Information and Public Actions”. In: Proceedings of the 2017 Interna-

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[C4] Raphaël Berthon, Bastien Maubert, Aniello Murano, Sasha Rubin, and Moshe Y. Vardi. “Strategy

logic with imperfect information”. In: 32nd Annual ACM/IEEE Symposium on Logic in Computer

Science, LICS 2017, Reykjavik, Iceland, June 20-23, 2017. IEEE Computer Society, 2017, pp. 1–12.

isbn: 978-1-5090-3018-7. doi: 10.1109/LICS.2017.8005136.

**ERA A/CORE A\***

[C5] Blai Bonet, Giuseppe De Giacomo, Hector Geffner, and Sasha Rubin. “Generalized Planning: Non-

Deterministic Abstractions and Trajectory Constraints”. In: International Joint Conference on Artificial

Intelligence (IJCAI 2017). 2017.

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[C6] Julian Gutierrez, Aniello Murano, Giuseppe Perelli, Sasha Rubin, and Michael Wooldridge. “Nash

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[C7] Benjamin Aminof, Vadim Malvone, Aniello Murano, and Sasha Rubin. “Graded Strategy Logic:

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[C8] Benjamin Aminof, Aniello Murano, Sasha Rubin, and Florian Zuleger. “Automatic Verification of

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[C9] Benjamin Aminof, Aniello Murano, Sasha Rubin, and Florian Zuleger. “Prompt Alternating-Time

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International Conference, (KR 2016). 2016, pp. 258–267.

**ERA A/CORE A\*, 27%, 182**

[C10] Benjamin Aminof and Sasha Rubin. “Model Checking Parameterised Multi-token Systems via the

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2016). 2016, pp. 499–515. doi: 10.1007/978-3-319-40229-1\_34.

**ERA A/CORE A\***

[C11] Giuseppe De Giacomo, Antonio Di Stasio, Aniello Murano, and Sasha Rubin. “Imperfect-Information Games and Generalized Planning”. In: Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence (IJCAI 2016). 2016, pp. 1037–1043.

**ERA A/CORE A\*, 25%, 2294**

[C12] Benjamin Aminof, Aniello Murano, and Sasha Rubin. “On CTL\* with Graded Path Modalities”. In:

Logic for Programming, Artificial Intelligence, and Reasoning - 20th International Conference, LPAR-

20 2015, Suva, Fiji, November 24-28, 2015, Proceedings. 2015, pp. 281–296. doi: 10.1007/978-

3-662-48899-7\_20.

**ERA A/CORE A**

[C13] Benjamin Aminof, Aniello Murano, Sasha Rubin, and Florian Zuleger. “Verification of Asynchronous Mobile-Robots in Partially-Known Environments”. In: PRIMA 2015: Principles and Practice of Multi- Agent Systems - 18th International Conference, Bertinoro, Italy, October 26-30, 2015, Proceedings. 2015, pp. 185–200. doi: 10.1007/978-3-319-25524-8\_12.

**ERA C/CORE B, Best Paper Award**

[C14] Benjamin Aminof, Sasha Rubin, Francesco Spegni, and Florian Zuleger. “Liveness of Parameterized Timed Networks”. In: Automata, Languages, and Programming - 42nd International Colloquium, ICALP 2015, Kyoto, Japan, July 6-10, 2015, Proceedings, Part II. 2015, pp. 375–387. doi: 10.1007/978-3-662-47666-6\_30.

**ERA A/CORE A**

[C15] Benjamin Aminof, Sasha Rubin, and Florian Zuleger. “On the Expressive Power of Communication Primitives in Parameterised Systems”. In: Logic for Programming, Artificial Intelligence, and Reasoning - 20th International Conference, LPAR-20 2015, Suva, Fiji, November 24-28, 2015, Proceedings. 2015, pp. 313–328. doi: 10.1007/978-3-662-48899-7\_22.

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Formal Verification, GandALF 2012, Napoli, Italy, September 6-8, 2012. 2012, pp. 238–246. doi:

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[C22] Alexander Rabinovich and Sasha Rubin. “Interpretations in Trees with Countably Many Branches”.

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[C23] Tobias Ganzow and Sasha Rubin. “Order-Invariant MSO is Stronger than Counting MSO in the

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[C24] Lukasz Kaiser, Sasha Rubin, and Vince Bárány. “Cardinality and counting quantifiers on omega-

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[C25] Bakhadyr Khoussainov and Sasha Rubin. “Decidability of Term Algebras Extending Partial Algebras”. In: Computer Science Logic, 19th International Workshop, CSL 2005, 14th Annual Conference of the EACSL, Oxford, UK, August 22-25, 2005, Proceedings. 2005, pp. 292–308. doi: 10 . 1007 /11538363\_21. **CORE B**

[C26] Doron Bustan, Sasha Rubin, and Moshe Y. Vardi. “Verifying omega-Regular Properties of Markov

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**ERA A/CORE A\***

[C27] Bakhadyr Khoussainov, André Nies, Sasha Rubin, and Frank Stephan. “Automatic Structures: Richness and Limitations”. In: LICS 2004, 19th IEEE Symposium on Logic in Computer Science, 14-17 July 2004, Turku, Finland, Proceedings. 2004, pp. 44–53. doi: 10.1109/LICS.2004.1319599.

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[C28] Bakhadyr Khoussainov, Sasha Rubin, and Frank Stephan. “Definability and Regularity in Automatic Structures”. In: STACS 2004, 21st Annual Symposium on Theoretical Aspects of Computer Science, Montpellier, France, March 25-27, 2004, Proceedings. 2004, pp. 440–451. doi: 10.1007/978-3-

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[C29] Bakhadyr Khoussainov, Sasha Rubin, and Frank Stephan. “On Automatic Partial Orders”. In: LICS

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