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Institute of Science and Technology (IST), Austria
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Medekstrasse 9/2/7,
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A-3400, Austria
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Krishnendu Chatterjee

Homepage: http://pub.ist.ac.at/∼kchatterjee

Personal Information

Year of Birth: 1978
Nationality: Indian

Education

- *Doctorate (PhD) in Computer Science* (Dec 2007)
  University of California, Berkeley.
- *MS in Computer Science* (May 2004)
  University of California, Berkeley
- *Bachelor of Technology (B.Tech (Hons.))* -Computer Science and Engineering,
  Indian Institute of Technology (IIT) - Kharagpur, India.
- *Higher Secondary Education : St. Xaviers College*, Calcutta,India
- *Secondary Education : Orient Day School*, Calcutta, India

Research Interests

- Verification and control of reactive systems.
- Probabilistic model checking.
- Stochastic game theory.
- Application of formal methods and games for reliable systems.
- Game theory in logic, automata theory and verification.
- Reputation and trust management system for Wikipedia.
- Evolutionary game theory.

PhD Thesis

- "*Stochastic ω-Regular Games*" under the supervision of Prof. Thomas A. Henzinger, at UC, Berkeley (thesis defended in 2007). It won the David J. Sakrison award from UC Berkeley for outstanding research, and Ackermann award from EACSL for outstanding dissertation in computer science logic.

Academic Employment

- Professor at Institute of Science and Technology, Austria (IST Austria) (from April 2014–present).
- Assistant Professor at Institute of Science and Technology, Austria (IST Austria) (from June 2009–March 2014).
- Post-doctoral researcher with Prof. Luca de Alfaro at UC, Santa Cruz (from Feb 2008–to May 2009).

Research Group

Current group

1. Ali Asadi (PhD student).
2. Mehrdad Karrabi (PhD student).
3. Ehsan Kafshdar Goharshady (PhD student).
4. Ruichen Luo (PhD student).
5. Satya Prakash Nayak (Postdoc).

Alumni: PhD Students

1. Johannes Reiter [Johannes Ritschl Dissertation Prize, Lower Austria; Schrodinger Fellowship].
2. Martin Chmelik [Outstanding PhD Thesis, IST Austria].
3. Andreas Pavlogiannis [Schrodinger Fellowship].
4. Josef Tkadlec.
5. Amir Kafshdar Goharshady [Outstanding PhD Thesis, IST Austria; Austrian Computer Science Young Experts Award; EAPLS Award].
6. Laura Schmid [ISTA Alumni Award, 2026].
7. Viktor Toman.
8. Djordje Zikelic [Outstanding scientific achievement (with M. Lechner), IST Austria; Outstanding PhD Thesis, IST Austria].
9. Jakub Svoboda.
10. Raimundo Saona.
11. Valentin Hubner.

Alumni: Postdoc

1. Florian Horn.
2. Mathieu Tracol.
3. Sasha Rubin.
4. Benjamin Aminof.
5. Jan Kretinsky [IST Fellow].
6. Tadeas Priklopil [IST Fellow, joint with Nick Barton].
7. Hongfei Fu.
8. Ventsislav Chonev.
9. Rasmus Ibsen-Jensen.
10. Petr Novotny [IST Fellow].
11. Christian Hilbe [IST Fellow].
12. Mingzhang Huang [ISTPlus Fellow].
13. Ismael Jacker [ISTPlus Fellow].
14. Maria Kleshnina [ISTPlus Fellow].
15. Tobias Meggendorfer (Postdoc, IST Fellow).
16. Maximilian Weininger (Postdoc, IST Fellow).

Academic Awards and Honors

1. **ERC Consolidator Grant** in 2019 awarded by European Research Council.
2. **ERC Start Grant** in 2011 awarded by European Research Council.
3. **Microsoft Faculty Fellowship Award** in 2011 for outstanding young faculty in computer science awarded by Microsoft Research.
4. **Golden Chalk Award** in June 2016 for teaching excellence at IST Austria
5. **Ackermann Award** in 2008 for PhD Thesis awarded by European Association of Computer Science Logic (EACSL) for "Outstanding Dissertation Award for Logic in Computer Science", 2008.
6. **David J. Sakrison Memorial Prize** for PhD Thesis (awarded annually for a "truly outstanding and innovative piece of research documented in written form"), University of California, Berkeley, 2008.
7. **President of India Gold Medal** (most prestigious academic award in IIT) in the batch of 2001 for being the best student *in order of merit* among students of all B. Tech (Hons) and B. Arch courses in *IIT, Kharagpur*.
8. *Institute Silver Medal* for the academic year 2000-2001 for being adjudged the *best student* in order of merit among students graduating with B. Tech (Hons) degree in Computer Science and Engineering (subsumed by the Gold Medal above).
9. *Selected awards for papers:*
   (a) Test-of-time award, Strategy Logic, CONCUR 2026.
   (b) Thomas L. Vincent best paper award (Int Society of Dynamic Games), 2022.
   (c) Distinguished paper award FM 2024. Distinguished tool paper award ATVA 2025.
   (d) Oral presentation: AAAI 2015 (1), 2023 (2), 2025 (2); UAI 2013 (1). Spotlight: NeurIPS 2026.
   (e) Invited for special issues several times at CAV, LICS, CONCUR etc.

Professional Activities

PC Member

1. FOSSACS 2010.
2. LICS 2010.
3. CSL 2010.
4. GANDALF 2010.
5. FOSSACS 2011.
6. GANDALF 2011.
7. FSTTCS 2011.
8. FORMATS 2011.
9. Formal Methods (FM) 2012.
10. MOVEP 2012.
11. FORMATS 2012.
12. MFCS 2012.
13. MEMICS 2012.
14. FOSSACS 2013.
15. TASE 2013.
16. CONCUR 2013.
17. RP 2013.
18. Highlights 2013.

19. LPAR-19 2013.
20. HSCC 2014.
21. LICS 2014.
22. CSL 2014.
23. EATCS Summer School.
24. QAPL 2014.
25. Strategic Reasoning 2014 (SR 2014).
26. MOVEP 2014.
27. Formal Methods Integration Workshop (FMi 2014).
28. HSCC 2015.
29. FOSSACS 2015.
30. CAV 2015.
31. QAPL 2015.
32. RP (Reachability problems) 2015.
33. FMi 2015.
34. GANDALF 2015.
35. Highlights 2015.
36. FORMATS 2015.
37. Strategic Reasoning (SR) 2015.
38. MEMICS 2015.
39. FICS 2015.
40. POPL 2016 ERC.
41. LPAR-20, 2016.
42. TACAS 2016.
43. HSCC 2016.
44. ICALP 2016 Track C.
45. MOVEP 2016.
46. ATVA 2016.
47. RP 2016.
48. SR 2016.
49. GANDALF 2016.
50. FSTTCS 2016.
51. POPL 2017 ERC.
52. ICAPS 2017.
53. ICALP 2017 Track B.
54. MoRE 2018.
55. RP 2018.
56. FSTTTCS 2018.
57. LATA 2019.
58. ICALP 2019 Track B.
59. QEST 2019.

60. ATVA 2019.
61. RADICAL 2019.
62. GAMENET POSTER Selection 2019.
63. CSL 2020.
64. ATVA 2020.
65. MFCS 2020.
66. ATVA 2021.
67. HIGHLIGHTS 2023.
68. SPIN 2023.
69. ATVA 2023.
70. LPAR 2023.
71. LAMAS-SR 2023.
72. LPAR 2024.
73. MFCS 2024.

PC Chair

1. FORMATS 2010.
2. GPMFV Workshop 2010.
3. MFCS 2013.
4. SYNT 2014.

Editorial Board

1. IPL (Information Processing Letters) 2014-2019.
2. I&C (Information and Computation).

Conference and Workshop Organization

1. FORMATS 2010.
2. GPMFV Workshop 2010.
3. AVM Meeting and ARiSE Kick-off 2011.
4. Dagstuhl workshop: Games and Decisions for Rigorous Systems Engineering.
5. RiSE Winter School 2013.
6. MFCS 2013.
7. LICS 2014 Local chair.
8. SYNT 2014.
9. Dagstuhl workshop: Non-zero sum games.

Publications

Conferences and Workshops

1. *Algorithms with Smoothed Polynomial-Time Complexity for Deterministic Discounted-sum and Mean-payoff Games.*
   Ali Asadi, Krishnendu Chatterjee, and Ruichen Luo.
   SODA 2027.

2. *On the Complexity of Discounted Robust MDPs with L_p Uncertainty Sets.*
   Ali Asadi, Krishnendu Chatterjee, Alipasha Montaseri, and Ali Shafiee.
   NeurIPS 2026 (Spotlight paper).
3. *Multi-Environment POMDPs with Finite-Horizon Objectives.*
   Leonard Brice, Filip Cano, Krishnendu Chatterjee, Thomas A. Henzinger, and Stefanie Muroya Lei.
   NeurIPS 2026.
4. *Algorithms for Linear Equations with Min and Max Operators Under (Absolutely) Halting Condition.*
   Krishnendu Chatterjee, Ruichen Luo, Raimundo Saona, and Jakub Svoboda.
   NeurIPS 2026.
5. *A Look Back at Strategy Logic (Invited Contribution for the Test-of-Time Award).*
   Krishnendu Chatterjee, Thomas A. Henzinger and Nir Piterman.
   CONCUR 2026.
6. *PAC Learning in Turn-Based Stochastic Games with Reachability Objectives: A Decentralized Private Approach via Expected Conditional Distance.*
   Ali Asadi, Krishnendu Chatterjee, and Pavol Kebis.
   CONCUR 2026.
7. *Reinforcement Learning for Reachability: Guaranteeing Asymptotic Optimality.*
   Amogh Palasamudram, Jakub Svoboda, Suguman Bansal, and Krishnendu Chatterjee.
   ICML 2026.
8. *Automated Approach for Solving Infinite-state Polynomial Reachability Games.*
   Krishnendu Chatterjee, Ehsan Kafshdar Goharshady, Mehrdad Karrabi, Maximilian Seeliger, and Djordje Zikelic.
   IJCAI/ECAI 2026.
9. *Strongly Polynomial Time Complexity of Policy Iteration for L_∞ Robust MDPs.*
   Ali Asadi, Krishnendu Chatterjee, Ehsan Kafshdar Goharshady, Mehrdad Karrabi, Alipasha Montaseri, and Carlo Pagano.
   COLT 2026.
10. *SuperDP: Differential Privacy Refutation via Supermartingales.*
    Krishnendu Chatterjee, Ehsan Kafshdar Goharshady, and Djordje Zikelic.
    PLDI 2026.
11. *Monotone Near-Zero-Sum Games: A Generalization of Convex-Concave Minimax.*
    Ruichen Luo, Sebastian U. Stich, and Krishnendu Chatterjee.
    ICLR 2026.
12. *Qualitative Analysis of ω-Regular Objectives on Robust MDPs.*
    Ali Asadi, Krishnendu Chatterjee, Ehsan Kafshdar Goharshady, Mehrdad Karrabi, and Ali Shafiee.
    AAAI 2026.
13. *Revealing POMDPs: Qualitative and Quantitative Analysis for Parity Objectives.*
    Ali Asadi, Krishnendu Chatterjee, David Lurie, and Raimundo Saona.
    AAAI 2026.
14. *Boosting Payment Channel Network Liquidity with Topology Optimization and Transaction Selection.*
    Krishnendu Chatterjee, Jan Matyas Kristan, Stefan Schmid, Jakub Svoboda, and Michelle Yeo.
    DISC 2025.
15. *PolyQEnt: A Polynomial Quantified Entailment Solver.*
    Krishnendu Chatterjee, Amir Kafshdar Goharshady, Ehsan Kafshdar Goharshady,

Mehrdad Karrabi, Milad Saadat, Maximilian Seeliger, and Djordje Zikelic.
ATVA 2025 (Distinguished tool paper award).

16. *Limit-sure Reachability for Small Memory Policies in POMDPs is NP-complete.*
Ali Asadi, Krishnendu Chatterjee, Raimundo Saona, and Ali Shafiee.
UAI 2025.

17. *Lower Bound on Howard Policy Iteration for Deterministic Markov Decision Processes.*
Ali Asadi, Krishnendu Chatterjee, and Jakob de Raaij.
UAI 2025.

18. *When is Liquid Democracy Possible? On the Manipulation of Variance.*
Krishnendu Chatterjee, Seth Gilbert, Stefan Schmid, Jakub Svoboda, and Michelle Yeo.
PODC 2025.

19. *The Value Problem for Multiple-Environment MDPs with Parity Objective.*
Krishnendu Chatterjee, Laurent Doyen, Jean-Francois Raskin, and Ocan Sankur.
ICALP 2025.

20. *Multiplicative Rewards in Markovian Models.*
Christel Baier, Krishnendu Chatterjee, Tobias Meggendorfer, and Jakob Piribauer.
LICS 2025.

21. *Risk-aware Markov Decision Processes Using Cumulative Prospect Theory.*
Thomas Brihaye, Krishnendu Chatterjee, Stefanie Mohr, and Maximilian Weininger.
LICS 2025.

22. *Quantified Linear and Polynomial Arithmetic Satisfiability via Template-based Skolemization.*
Krishnendu Chatterjee, Ehsan Kafshdar Goharshady, Mehrdad Karrabi, Harshit J Motwani, Maximilian Seeliger, and Djordje Zikelic.
AAAI 2025 (Selected for Oral presentation).

23. *Linear Equations with Min and Max Operators: Computational Complexity.*
Krishnendu Chatterjee, Ruichen Luo, Raimundo Saona and Jakub Svoboda.
AAAI 2025 (Selected for Oral presentation).

24. *Value Iteration with Guessing for Markov Chains and Markov Decision Processes.*
Krishnendu Chatterjee, Mahdi Jafariraviz, Raimundo Saona and Jakub Svoboda.
TACAS 2025.

25. *Refuting Equivalence in Probabilistic Programs with Conditioning.*
Krishnendu Chatterjee, Ehsan Kafshdar Goharshady, Petr Novotny and Djordje Zikelic.
TACAS 2025.

26. *Fixed Point Certificates for Reachability and Expected Rewards in MDPs.*
Krishnendu Chatterjee, Tim Quatmann, Maximilian Schäffeler, Maximilian Weininger, Tobias Winkler and Daniel Zilken.
TACAS 2025.

27. *Concurrent Stochastic Games with Stateful-Discounted and Parity Objectives: Complexity and Algorithms.*
Ali Asadi, Krishnendu Chatterjee, Jakub Svoboda, and Raimundo Saona.
FSTTCS 2024.

28. *Solving Long-run Average Reward Robust MDPs via Stochastic Games.*
Krishnendu Chatterjee, Ehsan Kafshdar Goharshady, Mehrdad Karrabi, Petr Novotny, and Djordje Zikelic.
IJCAI 2024.

29. *Certified Policy Verification and Synthesis for MDPs under Distributional Reach-Avoidance Properties.*
S. Akshay, Krishnendu Chatterjee, Tobias Meggendorfer, and Djordje Zikelic.
IJCAI 2024.

30. *Sound and Complete Witnesses for Template-based Verification of LTL Properties on Polynomial Programs.*
Krishnendu Chatterjee, Amir Goharshady, Ehsan Goharshady, Mehrdad Karrabi, and Djordje Zikelic.
FM 2024 (Distinguished paper award).

31. *Reinforcement Learning from Reachability Specifications: PAC Guarantees with Expected Conditional Distance.*
Jakub Svoboda, Suguma Bansal, and Krishnendu Chatterjee.
ICML 2024.

32. *Fully Automated Selfish Mining Analysis in Efficient Proof Systems Blockchains.*
Krishnendu Chatterjee, Amirali Ebrahim-Zadeh, Mehrdad Karrabi, Krzysztof Pietrzak, Michelle Yeo, and Djordje Zikelic.
PODC 2024.

33. *Game Dynamics and Equilibrium Computation in the Population Protocol Model.*
Dan Alistarh, Krishnendu Chatterjee, Mehrdad Karrabi, and John Lazarsfeld.
PODC 2024.

34. *Deterministic Sub-exponential Algorithm for Discounted-sum Games with Unary Weights.*
Ali Asadi, Krishnendu Chatterjee, Jakub Svoboda, and Raimundo Saona.
LICS 2024.

35. *Congestion-Free Rerouting of Network Flows: Hardness and an FPT Algorithm.*
Esra Ceylan, Krishnendu Chatterjee, Stefan Schmid, and Jakub Svoboda.
NOMS 2024.

36. *Equivalence and Similarity Refutation for Probabilistic Programs.*
Krishnendu Chatterjee, Ehsan Kafshdar Goharshady, Peter Novotny, and Djordje Zikelic.
PLDI 2024.

37. *Quantitative Bounds on Resource Usage of Probabilistic Programs.*
Krishnendu Chatterjee, Amir Kafshdar Goharshady, Tobias Meggendorfer, and Djordje Zikelic.
OOPSLA 2024.

38. *Compositional Policy Learning in Stochastic Control Systems with Formal Guarantees.*
Mathias Lechner, Djordje Zikelic, Abhinav Verma, Krishnendu Chatterjee, and Thomas A. Henzinger.
NeurIPS 2023.

39. *On the convergence time in graphical games: a locality-sensitive approach.*
Juho Hirvonen, Laura Schmid, Krishnendu Chatterjee, and Stefan Schmid.
OPODIS 2023.

40. *Entropic Risk for Turn-Based Stochastic Games.*
Christel Baier, Krishnendu Chatterjee, Tobias Meggendorfer, and Jakob Piribauer.
MFCS 2023.

41. *Learning Provably Stabilizing Neural Controllers for Discrete-Time Stochastic Systems.*
Matin Ansaripour, Krishnendu Chatterjee, Thomas A. Henzinger, Mathias Lechner, and Djordje Zikelic.
ATVA, 2023.

42. *MDPs as Distribution Transformers: Affine Invariant Synthesis for Safety Objectives.*
S. Akshay, Krishnendu Chatterjee, Tobias Meggendorfer, and Djordje Zikelic.
CAV 2023.

43. *Automated Tail Bound Analysis for Probabilistic Recurrence Relations.*
Yican Sun, Hongfei Fu, Krishnendu Chatterjee, and Amir Kafshdar Goharshady.
CAV 2023.

44. *R2: Boosting Liquidity in Payment Channel Networks with Online Admission Control Combining On-chain Recharging with Off-chain Rebalancing.*
Mahsa Bastankhah, Krishnendu Chatterjee, Mohammad Ali Maddah-Ali, Stefan Schmid, Jakub Svoboda, and Michelle Yeo.
Financial Cryptography (FC) 2023.

45. *A Learner-Verifier Framework for Neural Network Controllers and Certificates of Stochastic Systems.*
Krishnendu Chatterjee, Thomas A. Henzinger, Mathias Lechner, and Djordje Zikelic.
TACAS, 2023 (Invited paper).

46. *Learning Control Policies for Stochastic Systems with Reach-avoid Guarantees.*
Djordje Zikelic, Mathias Lechner, Krishnendu Chatterjee, and Thomas A. Henzinger.
AAAI, 2023 (Selected for Oral presentation).

47. *Quantization-aware Interval Bound Propagation for Training Certifiably Robust Quantized Neural Networks.*
Mathias Lechner, Djordje Zikelic, Krishnendu Chatterjee, Thomas A. Henzinger, and Daniela Rus.
AAAI, 2023 (Selected for Oral presentation).

48. *Faster Algorithm for Turn-based Stochastic Games with Bounded Treewidth.*
Krishnendu Chatterjee, Tobias Meggendorfer, Raimundo Saona, and Jakub Svoboda.
SODA, 2023.

49. *Complexity of Spatial Games.*
Krishnendu Chatterjee, Rasmus Ibsen-Jensen, Ismael Jecker, and Jakub Svoboda.
FSTTCS, 2022.

50. *Algorithms and Hardness Results for Computing Cores of Markov Chains.*
Ali Ahmadi, Krishnendu Chatterjee, Amir Kafshdar Goharshady, Tobias Meggendorfer, Roodabeh Safavi, and Djordje Zikelic.
FSTTCS, 2022.

51. *Sound and Complete Certificates for Quantitative Termination Analysis of Probabilistic Programs.*
Krishnendu Chatterjee, Amir Kafshdar Goharshady, Tobias Meggendorfer, and Djordje Zikelic.
CAV, 2022.

52. *The effect of environmental information on cooperation in stochastic games.*
Maria Kleshnina, Christian Hilbe, Stepan Simsa, Krishnendu Chatterjee, and Martin A. Nowak. *International Society of Dynamics Games (Thomas L. Vincent Best Paper Award).*

53. *Learning Stabilizing Policies in Stochastic Control Systems.*
Mathias Lechner, Djordje Zikelic, Krishnendu Chatterjee, and Thomas A. Henzinger.
ICLR-SRML Workshop, 2022.

54. *Stability Verification in Stochastic Control Systems via Neural Network Supermartingales.*
Mathias Lechner, Djordje Zikelic, Krishnendu Chatterjee, and Thomas A. Henzinger.
AAAI, 2022.

55. *Infinite Time Horizon Safety of Bayesian Neural Networks*
Mathias Lechner, Djordje Zikelic, Krishnendu Chatterjee, and Thomas A. Henzinger.
NeurIPS, 2021.

56. *Quantitative Verification on Product Graphs of Small Treewidth*
Krishnendu Chatterjee, Rasmus Ibsen-Jensen and Andreas Pavlogiannis.
FSTTCS, 2021.

57. *The Reads-From Equivalence for the TSO and PSO Memory Models*
Truc Lam Bui, Krishnendu Chatterjee, Tushar Gautam, Andreas Pavlogiannis, and Viktor Toman.
OOPSLA, 2021.

58. *On Lexicographic Proof Rules for Probabilistic Termination*
Krishnendu Chatterjee, Ehsan Kafshdar Goharshady, Petr Novotny, Jiri Zarevucky, and Djordje Zikelic.
Formal Methods (FM), 2021.

59. *Solving Partially Observable Stochastic Shortest-Path Games*
Petr Tomasek, Karel Horak, Aditya Aradhye, Branislav Bosansky and Krishnendu Chatterjee.
IJCAI, 2021.

60. *Faster Algorithms for Bounded Liveness in Graphs and Game Graphs*
Krishnendu Chatterjee, Monika Henzinger, Sagar Kale, and Alexander Svozil.
ICALP(B), 2021.

61. *Stateless Model Checking under a Reads-Value-From Equivalence*
Pratyush Agarwal, Krishnendu Chatterjee, Shreya Pathak, Andreas Pavlogiannis, and Viktor Toman.
CAV, 2021.

62. *Stochastic Processes with Expected Stopping Time*
Krishnendu Chatterjee and Laurent Doyen.
LICS, 2021.

63. *Symbolic Time and Space Tradeoffs for Probabilistic Verification*
Krishnendu Chatterjee, Wolfgang Dvorak, Monika Henzinger and Alexander Svozil.
LICS, 2021.

64. *Proving Non-termination by Program Reversal*
Krishnendu Chatterjee, Ehsan Kafshadr Goharshady, Petr Novotny, and Djordje Zikelic.
PLDI, 2021.

65. *Polynomial Reachability Witnesses via Stellensätze*
Ali Asadi, Krishnendu Chatterjee, Hongfei Fu, Amir Kafshadr Goharshady, and Mohammad Mahdavi.
PLDI, 2021.

66. *Quantitative Analysis of Assertion Violation in Probabilistic Programs*
Jinyi Wang, Yican Sun, Hongfei Fu, Amir Kafshadr Goharshady, and Krishnendu Chatterjee.
PLDI, 2021.

67. *On Satisficing in Quantitative Games*
Suguman Bansal, Krishnendu Chatterjee, and Moshe Vardi.
TACAS, 2021.

68. *Precedence-aware Automated Competitive Analysis of Real-time Scheduling*
Andreas Pavlogiannis, Nico Schaumberger, Ulrich Schmid, and Krishnendu Chatterjee.
EMSOFT, 2020.

69. *Multi-dimensional Long-Run Average Problems for Vector Addition Systems with States*
Krishnendu Chatterjee, Thomas Henzinger, and Jan Otop.
CONCUR, 2020.

70. *Simplified Game of Life: Algorithms and Complexity*
Krishnendu Chatterjee, Rasmus Ibsen-Jensen, Ismael Jecker, and Jakub Svoboda.
MFCS, 2020.

71. *Faster Algorithms for Quantitative Analysis of MCs and MDPs with Small Treewidth*
Ali Asadi, Krishnendu Chatterjee, Amir Kafshdar Goharshady, Kiarash Mohammadi, and Andreas Pavlogiannis.
ATVA, 2020.

72. *Stochastic Games with Lexicographic Reachability-Safety Objectives*
Krishnendu Chatterjee, Joost-Pieter Katoen, Maximilian Weininger, and Tobias Winkler.
CAV, 2020.

73. *Approximating Values of Generalized-Reachability Stochastic Games*
Pranav Ashok, Krishnendu Chatterjee, Jan Kretinsky, Maximilian Weininger, and Tobias Winkler.
LICS, 2020.

74. *Polynomial Invariant Generation for Non-deterministic Recursive Programs*
Krishnendu Chatterjee, Hongfei Fu, Amir Kafshdar Goharshady, Ehsan Kafshdar Goharshady.
PLDI, 2020.

75. *Multiple-Environment Markov Decision Processes: Efficient Analysis and Applications*
Krishnendu Chatterjee, Martin Chmelik, Deep Karkhanis, Petr Novotny, Amelie Royer.
ICAPS, 2020.

76. *Optimal and Perfectly Parallel Algorithms for On-demand Data-flow Analysis*
Krishnendu Chatterjee, Amir Kafshdar Goharshady, Rasmus Ibsen-Jensen, Andreas Pavlogiannis.
ESOP, 2020.

77. *Reinforcement Learning of Risk-Constrained Policies in Markov Decision Processes*
Tomas Brazdil, Krishnendu Chatterjee, Petr Novotny, Jiri Vahala.
AAAI, 2020.

78. *Proving Expected Sensitivity of Probabilistic Programs with Randomized Variable-Dependent Termination Time*
Peixin Wang, Hongfei Fu, Krishnendu Chatterjee, Yuxin Deng, Ming Xu.
POPL, 2020.

79. *The Evolutionary Price of Anarchy: Locally Bounded Agents in a Dynamic Virus Game*
Laura Schmid, Krishnendu Chatterjee, and Stefan Schmid.
OPODIS, 2019.

80. *Value-centric Dynamic Partial Order Reduction*
Krishnendu Chatterjee, Andreas Pavlogiannis, and Viktor Toman.
OOPSLA, 2019.

81. *Modular Verification for Almost-sure Termination of Probabilistic Programs*
Mingzhang Huang, Hongfei Fu, Krishnendu Chatterjee, and Amir Kafshdar Goharshady.
OOPSLA, 2019.

82. *Deciding Fast Termination for Probabilistic VASS with Nondeterminism*
Tomas Brazdil, Krishnendu Chatterjee, Antonin Kucera, Petr Novotny, and Dominik Velan.
ATVA, 2019.

83. *Combinations of Qualitative Winning for Stochastic Parity Games*
Krishnendu Chatterjee and Nir Piterman.
CONCUR 2019.

84. *Near-linear time algorithms for Streett objectives in Graphs and MDPs*
Krishnendu Chatterjee, Wolfgang Dvorak, Monika Henzinger, and Alexander Svozil.
CONCUR 2019.

85. *Long-Run Average Behavior of Vector Addition Systems with States*
Krishnendu Chatterjee, Thomas A. Henzinger, and Jan Otop.
CONCUR 2019.

86. *Strategy Representation by Decision Trees with Linear Classifiers*
Pranav Ashok, Tomas Brazdil, Krishnendu Chatterjee, Jan Kretinsky, Christoph H. Lampert, and Viktor Toman.
QEST 2019.

87. *Graph Planning with Expected Finite Horizon*
Krishnendu Chatterjee and Laurent Doyen.
LICS 2019.

88. *Cost Analysis of Nondeterministic Probabilistic Programs*
Peixin Wang, Hongfei Fu, Amir Kafshdar Goharshady, Krishnendu Chatterjee, Xudong Qin, and Wenjun Shi.
PLDI 2019.

89. *Run-Time Optimization for Learned Controllers through Quantitative Games*
Guy Avni, Roderick Bloem, Krishnendu Chatterjee, Thomas A. Henzinger, Bettina Koenighofer and Stefan Pranger.
CAV 2019.

90. *Probabilistic Smart Contracts: Secure Randomness on the Blockchain*
Krishnendu Chatterjee, Amir K. Goharshady, and Arash Pourdamghani.
IEEE ICBC, 2019.

91. *The Treewidth of Smart Contracts*
Krishnendu Chatterjee, Amir Kafshdar Goharshady, and Ehsan Kafshdar Goharshady.
ACM SAC, 2019.

92. *Hybrid Mining: Exploiting Blockchain's Computational Power for Distributed Problem Solving*
Krishnendu Chatterjee, Amir K. Goharshady, and Arash Pourdamghani.
ACM SAC, 2019.

93. *Termination of Nondeterministic Probabilistic Programs*
Hongfei Fu and Krishnendu Chatterjee.
VMCAI, 2019.

94. *Efficient Parameterized Algorithms for Data Packing*
Krishnendu Chatterjee, Amir Kafshdar Goharshady, Nastaran Okati and Andreas Pavlogiannis
POPL, 2019.

95. *Quasipolynomial Set-Based Symbolic Algorithms for Parity Games*
Krishnendu Chatterjee, Wolfgang Dvorak, Monika Henzinger and Alexander Svozil
LPAR-22, 2018.

96. *New Approaches for Almost-Sure Termination of Probabilistic Programs*
Mingzhang Huang, Hongfei Fu, and Krishnendu Chatterjee.
APLAS, 2018.

97. *Ergodic Mean-Payoff Games for the Analysis of Attacks in Crypto-Currencies*
Krishnendu Chatterjee, Amir Kafshdar Goharshady, Rasmus Ibsen-Jensen, and Yaron Velner.
CONCUR, 2018.

98. *Parameter-Independent Strategies for pMDPs via POMDPs*
Sebastian Arming, Ezio Bartocci, Krishnendu Chatterjee, Joost-Pieter Katoen and Ana Sokolova.
QEST, 2018.

99. *Secure Credit Reporting on the Blockchain*
Amir Kafshdar Goharshady, Ali Berhouz, and Krishnendu Chatterjee.
IEEE BlockchainApp, 2018.

100. *Expectation Optimization with Probabilistic Guarantees in POMDPs with Discounted-Sum Objectives*
Krishnendu Chatterjee, Adrian Elgyutt, Petr Novotny, and Owen Rouille.
IJCAI, 2018.

101. *Goal-HSVI: Heuristic Search Value Iteration for Goal POMDPs*
Karel Horak, Branislav Bosansky, and Krishnendu Chatterjee.
IJCAI, 2018.

102. *Computational Approaches for Stochastic Shortest Path on Succinct MDPs*
Krishnendu Chatterjee, Hongfei Fu, Amir Kafshdar Goharshady, and Nastaran Okati.
IJCAI, 2018.

103. *Symbolic Algorithms for Graphs and Markov Decision Processes with Fairness Objectives*
Krishnendu Chatterjee, Monika Henzinger, Veronika Loitzenbauer, Simin Oraee and Viktor Toman.
CAV, 2018.

104. *Efficient Algorithms for Asymptotic Bounds on Termination Time in VASS*
Tomas Brazdil, Krishnendu Chatterjee, Antonin Kucera, Petr Novotny, Dominik Velan and Florian Zuleger.
LICS, 2018.

105. *Sensor Synthesis for POMDPs with Reachability Objectives*
Krishnendu Chatterjee, Martin Chmelik, and Ufuk Topcu.
ICAPS, 2018.

106. *Algorithms and Conditional Lower bounds for Planning Problems*
Krishnendu Chatterjee, Wolfgang Dvorak, Monika Henzinger, and Alexander Svozil.
ICAPS, 2018.

107. *Quantitative Analysis of Smart Contracts*
Krishnendu Chatterjee, Amir Kafshdar Goharshady, and Yaron Velner
ESOP, 2018.

108. *Strategy Representation by Decision Trees in Reactive Synthesis*
Tomas Brazdil, Krishnendu Chatterjee, Jan Kretinsky, and Viktor Toman
TACAS, 2018.

109. *Lower Bounds for Symbolic Computation on Graphs: Strongly Connected Components, Liveness, Safety, and Diameter*
Krishnendu Chatterjee, Wolfgang Dvorak, Monika Henzinger, and Veronika Loitzenbauer
SODA, 2018.

110. *Optimal Dyck Reachability for Data-dependence and Alias Analysis*
Krishnendu Chatterjee, Bhavya Choudhary, and Andreas Pavlogiannis.
POPL, 2018.

111. *Lexicographic Ranking Supermartingales: An Efficient Approach to Termination of Probabilistic Programs*
Sheshansh Agrawal, Krishnendu Chatterjee, and Petr Novotny.
POPL, 2018.

112. *Data-centric Dynamic Partial Order Reduction*
Marek Chalupa, Krishnendu Chatterjee, Andreas Pavlogiannis, Nishant Sinha, and Kapil Vaidya.
POPL, 2018.

113. *Computing Average Response Time*
Krishnendu Chatterjee, Thomas A. Henzinger, and Jan Otop
Festschrift EAL 60, 2017.

114. *Bidirectional Nested Weighted Automata*
Krishnendu Chatterjee, Thomas A. Henzinger, and Jan Otop
CONCUR, 2017.

115. *JTDec: A Tool for Tree Decompositions in Soot*
Krishnendu Chatterjee, Amir Kafshdar Goharshady, and Andreas Pavlogiannis
ATVA, 2017.

116. *Faster Algorithms for Mean-Payoff Parity Games*
Krishnendu Chatterjee, Monika Henzinger, and Alexander Svozil
MFCS, 2017.

117. *Faster Monte-Carlo Algorithms for Fixation Probability of the Moran Process on Undirected Graphs*
Krishnendu Chatterjee, Rasmus Ibsen-Jensen, and Martin A. Nowak
MFCS, 2017.

118. *Strategy Complexity of Concurrent Safety Games*
Krishnendu Chatterjee, Kristoffer Arnsfelt Hansen, and Rasmus Ibsen-Jensen
MFCS, 2017.

119. *Improved Set-based Symbolic Algorithms for Parity Games*
Krishnendu Chatterjee, Wolfgang Dvorak, Monika Henzinger, and Veronika Loitzenbauer
CSL, 2017.

120. *Value Iteration for Long-run Average Reward in Markov Decision Processes*
Pranav Ashok, Krishnendu Chatterjee, Przemyslaw Daca, Jan Kretinsky, and Tobias Meggendorfer
CAV, 2017.

121. *Automated Recurrence Analysis for Almost-Linear Expected-Runtime Bounds*
Krishnendu Chatterjee, Hongfei Fu, and Aniket Murhekar
CAV, 2017.

122. *Non-polynomial Worst-case Analysis of Recursive Programs*
Krishnendu Chatterjee, Hongfei Fu, and Amir Kafshdar Goharshady
CAV, 2017.

123. *The Cost of Exactness in Quantitative Reachability*
Krishnendu Chatterjee, Laurent Doyen, and Thomas A. Henzinger
KimFest, 2017.

124. *Faster Algorithms for Weighted Recursive State Machines*
Krishnendu Chatterjee, Bernhard Kragl, Samarth Mishra, and Andreas Pavlogiannis
ESOP, 2017.

125. *Optimizing Expectation with Guarantees in POMDPs*
Krishnendu Chatterjee, Petr Novotny, Guillermo A. Perez, Jean-Francois Raskin, and Djordje Zikelic
AAAI, 2017.

126. *Stochastic Invariants for Probabilistic Termination*
Krishnendu Chatterjee, Petr Novotny, and Djordje Zikelic
POPL, 2017.

127. *Quantitative Monitor Automata*
Krishnendu Chatterjee, Thomas A. Henzinger, and Jan Otop
SAS, 2016.

128. *Optimal Reachability and a Space-Time Tradeoff for Distance Queries in Constant-Treewidth Graphs*
Krishnendu Chatterjee, Rasmus Ibsen-Jensen, and Andreas Pavlogiannis
ESA, 2016.

129. *The Complexity of Deciding Legality of a Single Step of Magic: the Gathering*
Krishnendu Chatterjee, and Rasmus Ibsen-Jensen
ECAI, 2016.

130. *Conditionally Optimal Algorithms for Generalized Büchi Games*
Krishnendu Chatterjee, Wolfgang Dvorak, Monika Henzinger, and Veronika Loitzenbauer
MFCS, 2016.

131. *Nested Weighted Limit-Average Automata of Bounded Width*
Krishnendu Chatterjee, Thomas A. Henzinger, and Jan Otop
MFCS, 2016.

132. *Termination Analysis of Probabilistic Programs through Positivstellensatz's*
Krishnendu Chatterjee, Hongfei Fu, and Amir Kafshdar Goharshady
CAV, 2016.

133. *Computation Tree Logic for Synchronization Properties*
Krishnendu Chatterjee, and Laurent Doyen
ICALP, 2016.

134. *Game-theoretic models identify useful principles for peer collaboration in online learning platforms*
Vineet Pandey and Krishnendu Chatterjee
CSCW Companion, 2016.

135. *Model and Objective Separation with Conditional Lower Bounds: Disjunction is Harder than Conjunction*
Krishnendu Chatterjee, Wolfgang Dvorak, Monika Henzinger, and Veronika Loitzenbauer
LICS, 2016.

136. *Perfect-information Stochastic Games with Generalized Mean-Payoff Objectives*
Krishnendu Chatterjee, and Laurent Doyen
LICS, 2016.

137. *Quantitative Automata under Probabilistic Semantics*
Krishnendu Chatterjee, Thomas A. Henzinger, and Jan Otop
LICS, 2016.

138. *Robust Draws in Balanced Knockout Tournaments*
Krishnendu Chatterjee, Rasmus Ibsen-Jensen, and Josef Tkadlec
IJCAI, 2016.

139. *Optimal Cost Indefinite-Horizon Reachability in Goal DEC-POMDPs*
Krishnendu Chatterjee, and Martin Chmelik
ICAPS, 2016.

140. *Stochastic Shortest Path with Energy Constraints in POMDPs*
Tomas Brazdil, Krishnendu Chatterjee, Martin Chmelik, Anchit Gupta, and Peter Novotny
AAMAS, 2016.

141. *A Symbolic SAT-based Algorithm for Almost-sure Reachability with Small Strategies in POMDPs*
Krishnendu Chatterjee, Martin Chmelik, and Jessica Davies
AAAI, 2016.

142. *Algorithms for Algebraic Path Properties in Concurrent Systems of Constant Treewidth Components*
Krishnendu Chatterjee, Amir Kafshdar Goharshady, Rasmus Ibsen-Jensen, and Andreas Pavlogiannis
POPL, 2016.

143. *Algorithmic Analysis of Qualitative and Quantitative Termination Problems for Affine Probabilistic Programs*
Krishnendu Chatterjee, Hongfei Fu, Petr Novotny, and Rouzbeh Hasheminezhad
POPL, 2016.

144. *Counterexample Explanation by Learning Small Strategies in Markov Decision Processes*
Tomas Brazdil, Krishnendu Chatterjee, Martin Chmelik, Andreas Fellner, and Jan Kretinsky.
CAV, 2015.

145. *Faster Algorithms for Quantitative Verification in Constant Treewidth Graphs*
Krishnendu Chatterjee, Rasmus Ibsen-Jensen, and Andreas Pavlogiannis
CAV, 2015.

146. *Edit Distance for Pushdown Automata*
Krishnendu Chatterjee, Thomas A. Henzinger, Rasmus Ibsen-Jensen, and Jan Otop
ICALP, 2015.

147. *The Complexity of Synthesis from Probabilistic Components*
Krishnendu Chatterjee, Laurent Doyen, and Moshe Y. Vardi
ICALP, 2015.

148. *Nested Weighted Automata*
Krishnendu Chatterjee, Thomas A. Henzinger, and Jan Otop
LICS, 2015.

149. *Unifying Two Views on Multiple Mean-Payoff Objectives in Markov Decision Processes*
Krishnendu Chatterjee, Zuzana Komarkova, and Jan Kretinsky
LICS, 2015.

150. *Improved Algorithms for One-Pair and k-Pair Streett Objectives*
Krishnendu Chatterjee, Monika Henzinger, and Veronika Loitzenbauer
LICS, 2015.

151. *Qualitative Analysis of POMDPs with Temporal Logic Specifications for Robotics Applications*
Krishnendu Chatterjee, Martin Chmelik, Raghav Gupta, and Ayush Kanodia
ICRA, 2015.

152. *Assume-Guarantee Synthesis for Concurrent Reactive Programs with Partial Information*
Roderick Bloem, Krishnendu Chatterjee, Swen Jacobs, and Robert Koenighofer
TACAS, 2015.

153. *MultiGain: A controller synthesis tool for MDPs with multiple mean-payoff objectives*
Tomas Brazdil, Krishnendu Chatterjee, Vojtech Forejt, and Antonin Kucera
TACAS, 2015.

154. *Temporal Logic Control for Stochastic Linear Systems using Abstraction Refinement of Probabilistic Games*
Maria Svorenova, Jan Kretinsky, Martin Chmelik, Krishnendu Chatterjee, Ivana Cerna, and Calin Belta
HSCC, 2015.

155. *Temporal Logic Motion Planning using POMDPs with Parity Objectives*
Maria Svorenova, Martin Chmelik, Kevin Leahy, Hasan Ferit Eniser, Krishnendu Chatterjee, Ivana Cerna, and Calin Belta
HSCC, 2015.

156. *Optimal Cost Almost-sure Reachability in POMDPs*
Krishnendu Chatterjee, Martin Chmelik, Raghav Gupta, and Ayush Kanodia
AAAI, 2015.

157. *Automatic Generation of Alternative Starting Positions for Traditional Board Games*
Umair Z. Ahmded, Krishnendu Chatterjee, and Sumit Gulwani
AAAI, 2015 (Selected for Oral presentation).

158. *Faster Algorithms for Algebraic Path Properties in RSMs with Constant Treewidth*
Krishnendu Chatterjee, Prateesh Goyal, Rasmus Ibsen-Jensen, and Andreas Pavlogiannis
POPL, 2015.

159. *Quantitative Interprocedural Analysis*
Krishnendu Chatterjee, Andreas Pavlogiannis, and Yaron Velner
POPL, 2015.

160. *The Value 1 Problem Under Finite-memory Strategies for Concurrent Mean-payoff Games*
Krishnendu Chatterjee and Rasmus Ibsen-Jensen
SODA, 2015.

161. *A Framework for Automated Competitive Analysis of On-line Scheduling of Firm-Deadline Tasks*
Krishnendu Chatterjee, Andreas Pavlogiannis, Alexander Köβler, and Ulrich Schmid
RTSS, 2014.

162. *Multidimensional Quantitative Games and Markov Decision Processes (Invited Tutorial)*
Krishnendu Chatterjee
ATVA, 2014.

163. *The Complexity Landscape of Partial-observation Stochastic Games (Invited Talk)*
Krishnendu Chatterjee
ATVA, 2014.

164. *Verification of Markov Decision Processes using Learning Algorithms*
Tomas Brazdil, Krishnendu Chatterjee, Martin Chmelik, Vojtech Forejt, Jan Kretinsky, Marta Kwiatkowska, David Parker and Mateusz Ujma
ATVA, 2014.

165. *SYNT 2014*
Krishnendu Chatterjee, Ruediger Ehlers and Susmit Jha (Editors)

166. *Game Theoretic Secure Localization in Wireless Sensor Networks*
Susmit Jha, Stavros Tripakis, Sanjit Seshia and Krishnendu Chatterjee
IoT (Internet of Things), 2014.

167. *Qualitative Concurrent Parity Games: Bounded Rationality*
Krishnendu Chatterjee
CONCUR, 2014.

168. *Partial-observation Stochastic Reachability and Parity Games*
Krishnendu Chatterjee
MFCS, 2014 (Invited paper).

169. *CEGAR for Qualitative Analysis of Probabilistic Systems*
Krishnendu Chatterjee, Martin Chmelik and Przemyslaw Daca
CAV, 2014.

170. *Games with a Weak Adversary*
Krishnendu Chatterjee and Laurent Doyen
ICALP, 2014.

171. *The Complexity of Ergodic Mean-payoff Games*
Krishnendu Chatterjee and Rasmus Ibsen-Jensen
ICALP, 2014.

172. *Perfect-Information Stochastic Mean-Payoff Parity Games*
Krishnendu Chatterjee, Laurent Doyen, Hugo Gimbert and Youssouf Oualhadj
FoSSaCS, 2014.

173. *The Complexity of Partial-observation Stochastic Parity Games With Finite-memory Strategies*
Krishnendu Chatterjee, Laurent Doyen, Sumit Nain and Moshe Y. Vardi
FoSSaCS, 2014.

174. *Edit Distance for Timed Automata*
Krishnendu Chatterjee, Rasmus Ibsen-Jensen, and Rupak Majumdar
HSCC, 2014.

175. *Doomsday Equilibria for Omega-Regular Games*
Krishnendu Chatterjee, Laurent Doyen, Emmanuel Filiot and Jean-Francois Raskin
VMCAI, 2014.

176. *Multi-objective discounted reward verification in graphs and MDPs*
Krishnendu Chatterjee, Vojtech Forejt, and Dominik Wojtczak
LPAR-19, 2013

177. *Distributed Synthesis for LTL Fragments*
Krishnendu Chatterjee, Thomas A. Henzinger, Jan Otop and Andreas Pavlogiannis
FMCAD 13

178. *Approximating the minimum cycle mean*
Krishnendu Chatterjee, Monika Henzinger, Sebastian Krinninger and Veronika Loitzenbauer
GANDALF 13

179. *What is Decidable about Partially Observable Markov Decision Processes with omega-Regular Objectives*
Krishnendu Chatterjee, Martin Chmelik and Mathieu Tracol
CSL 13

180. *Infinite-state games with finitary conditions*
Krishnendu Chatterjee and Nathanael Fijalkow
CSL 13

181. *Looking at Mean-Payoff and Total-Payoff through Windows*
Krishnendu Chatterjee, Laurent Doyen, Mickael Randour and Jean-Francois Raskin
ATVA 13

182. *Hyperplane Separation Technique for Multidimensional Mean-Payoff Games*
Krishnendu Chatterjee and Yaron Velner
CONCUR 13

183. *MFCS 2013*
Krishnendu Chatterjee and Jiri Sgall (Editors)

184. *POMDPs under Probablistic Semantics*
Krishnendu Chatterjee and Martin Chmelik
UAI 13 (Selected for Oral presentation)

185. *Trading Performance for Stability in Markov Decision Processes*
Tomas Brazdil, Krishnendu Chatterjee, Vojtech Forejt, and Antonin Kucera
LICS 13

186. *Automata with Generalized Rabin Pairs for Probabilistic Model Checking and LTL Synthesis*
Krishnendu Chatterjee, Andreas Gaiser and Jan Kretinsky
CAV 13

187. *Faster Algorithms for Markov Decision Processes with Low Treewidth*
Krishnendu Chatterjee and Jakub Lacki
CAV 13

188. *TTP: Tool for Tumor Progression*
Johannes G. Reiter, Ivana Bozic, Krishnendu Chatterjee and Martin A. Nowak
CAV 13

189. *Quantitative Timed Simulation Functions and Refinement Metrics for Real-Time Systems*
Krishnendu Chatterjee and Vinayak Prabhu
HSCC 13

190. *Automated Analysis of Real-Time Scheduling using Graph Games*
Krishnendu Chatterjee, Alexander Köβler, and Ulrich Schmid
HSCC 13

191. *Games and Decisions for Rigorous Systems Engineering (Dagstuhl Seminar 12461)*
Nikolaj Bjorner, Krishnendu Chatterjee, Laura Kovacs, and Rupak Majumdar
Dagstuhl Reports (Editor)

192. *How to travel between languages*
Krishnendu Chatterjee, Siddhesh Chaubal, and Sasha Rubin
LATA 13

193. *Average Case Analysis of the Classical Algorithm for Markov Decision Processes with Büchi Objectives*
Krishnendu Chatterjee, Manas Joglekar and Nisarg Shah
FSTTCS 12

194. *Strategy complexity of finite-horizon Markov decision processes and simple stochastic games*
Krishnendu Chatterjee, Rasmus Ibsen-Jensen
MEMICS 12

195. *Finite Automata with Time-Delay Blocks*
Krishnendu Chatterjee, Thomas A. Henzinger and Vinayak Prabhu
EMSOFT 12

196. *Equivalence of Games with Probabilistic Uncertainty and Partial-observation Games*
Krishnendu Chatterjee, Martin Chmelik, and Rupak Majumdar
ATVA 12

197. *Polynomial-time Algorithms for Energy Games with Special Weight Structures*
Krishnendu Chatterjee, Monika Henzinger, Sebastian Krinninger and Danupon Nanongkai
ESA 12

198. *Faster Algorithms for Alternating Refinement Relations*
Krishnendu Chatterjee, Siddhesh Chaubal and Pritish Kamath
CSL 12

199. *Strategy Synthesis for Multi-dimensional Quantitative Objectives*
Krishnendu Chatterjee, Mickael Randour and Jean-Francois Raskin
CONCUR 12

200. *Partial-Observation Stochastic Games: How to Win when Belief Fails*
Krishnendu Chatterjee and Laurent Doyen
LICS 12

201. *Mean-Payoff Pushdown Games*
Krishnendu Chatterjee and Yaron Velner
LICS 12

202. *Decidable Problems for Probabilistic Automata on Infinite Words*
Krishnendu Chatterjee and Mathieu Tracol
LICS 12

203. *Efficient Controller Synthesis for Consumption Games with Multiple Resource Types*
Tomas Brazdil, Krishnendu Chatterjee, Antonin Kucera and Petr Novotny
CAV 12

204. *Robustness of Structurally Equivalent Concurrent Parity Games*
Krishnendu Chatterjee
FOSSACS 12

205. *An $O(n^2)$ Time Algorithm for Alternating Büchi Games*
Krishnendu Chatterjee and Monika Henzinger
SODA 12

206. *Synthesizing Protocols for Digital Contract Signing*
Krishnendu Chatterjee and Vishwanath Raman
VMCAI 2012

207. *Games and Markov decision Processes with Mean-payoff Parity and Energy Parity Objectives*
Krishnendu Chatterjee and Laurent Doyen
MEMICS, 2011

208. *Minimum Attention Controller Synthesis for Omega-Regular Objectives*
Krishnendu Chatterjee and Rupak Majumdar
FORMATS, 2011

209. *On Memoryless Quantitative Objectives*
Krishnendu Chatterjee, Laurent Doyen and Rohit Singh
FCT, 2011

210. *Energy and Mean-Payoff Parity Markov Decision Processes*
Krishnendu Chatterjee and Laurent Doyen
MFCS, 2011

211. *Graph Games with Reachability Objectives*
Krishnendu Chatterjee
Reachability Problems, 2011 (Invited Paper)

212. *Specification-Centered Robustness*
Roderick Bloem, Krishnendu Chatterjee, Karin Greimel, Thomas A. Henzinger, and Barbara Jobstmann
International Symposium on Industrial Embedded Systems, 2011 (Invited Paper)

213. *A reduction from parity games to simple stochastic games*
Krishnendu Chatterjee and Nathanael Fijalkow
GANDALF 2011

214. *The Complexity of Quantitative Information Flow*
Pavol Cerny, Krishnendu Chatterjee and Thomas A. Henzinger
CSF 2011

215. *Quantitative Synthesis of Concurrent Programs*
Pavol Cerny, Krishnendu Chatterjee, Thomas A. Henzinger, Arjun Radhakrishna and Rohit Singh
CAV 2011

216. *Symbolic Algorithms for Qualitative Analysis of Markov Decision Processes with Buchi Objectives*
Krishnendu Chatterjee, Monika Henzinger, Manas Joglekar and Nisarg Shah
CAV 2011

217. *Two Views on Multiple Mean Payoff Objectives in Markov Decision Processes*
Tomas Brazdil, Vaclav Brozek, Krishnendu Chatterjee, Vojtech Forejt, and Antonin Kucera
LICS 2011

218. *Temporal Specifications with Accumulative Values*
Udi Boker, Krishnendu Chatterjee, Thomas A. Henzinger and Orna Kupferman
LICS 2011

219. *Finitary Languages*
Krishnendu Chatterjee and Nathanael Fijalkow
LATA 2011

220. *The Complexity of Request-response Games*
Krishnendu Chatterjee, Thomas A. Henzinger and Florian Horn
LATA 2011

221. *Synthesis of Memory Efficient Real-Time Controllers for Safety Objectives*
Krishnendu Chatterjee and Vinayak Prabhu
HSCC 2011

222. *QUASY: Quantitative Synthesis Tool*
Krishnendu Chatterjee, Thomas A. Henzinger, Barbara Jobstmann and Rohit Singh
TACAS 2011

223. *Faster and Dynamic Algorithms For Maximal End-Component Decomposition And Related Graph Problems In Probabilistic Verification*
Krishnendu Chatterjee and Monika Henzinger
SODA 2011

224. *Generalizaed Mean-payoff and Energy Games*
Krishnendu Chatterjee, Laurent Doyen, Thomas A. Henzinger and Jean-Francois Raskin
FSTTCS 2010

225. *FORMATS 2010*
Krishnendu Chatterjee and Thomas A. Henzinger (Editors)

226. *The Complexity of Partial-Observation Parity Games*
Krishnendu Chatterjee and Laurent Doyen
LPAR-17 2010

227. *Probabilistic Automata on Infinite Words: Decidability and Undecidability Results*
Krishnendu Chatterjee and Thomas A. Henzinger
ATVA 2010

228. *Randomness for Free*
Krishnendu Chatterjee, Laurent Doyen, Hugo Gimbert and Thomas A. Henzinger
MFCS 2010

229. *Qualitative Analysis of Partially-Observable Markov Decision Processes*
Krishnendu Chatterjee, Laurent Doyen and Thomas A. Henzinger
MFCS 2010

230. *Obligingness Games*
Krishnendu Chatterjee, Florian Horn and Christof Loeding
CONCUR 2010

231. *Mean-payoff Automaton Expressions*
Krishnendu Chatterjee, Laurent Doyen, Herbert Edelsbrunner, Thomas A. Henzinger and Phillipe Rannou
CONCUR 2010

232. *Discounting in Games across Time Scales*
Krishnendu Chatterjee and Rupak Majumdar
GandALF 2010

233. *Energy Parity Games*
Krishnendu Chatterjee and Laurent Doyen
ICALP 2010

234. *Measuring and Synthesizing Systems in Probabilistic Environments*
Krishnendu Chatterjee, Thomas A. Henzinger, Barbara Jobstmann and Rohit Singh
CAV 2010

235. *Gist: A Solver for Probabilistic Games*
Krishnendu Chatterjee, Thomas A. Henzinger, Barbara Jobstmann and Arjun Radhakrishna
CAV 2010

236. *Robustness in the Presence of Liveness*
Roderick Bloem, Krishnendu Chatterjee, Karin Greimel, Thomas A. Henzinger and Barbara Jobstmann
CAV 2010

237. *Analyzing the Impact of Change in Multi-threaded Programs*
Krishnendu Chatterjee, Luca de Alfaro, Vishwanath Raman and Cesar Sanchez
FASE 2010

238. *Probabilistic Weighted Automata*
Krishnendu Chatterjee, Laurent Doyen and Thomas A. Henzinger
Proceedings of 19th International Conference on Concurrency Theory (Concur 2009)

239. *Better Quality in Synthesis through Quantitative Objectives*
Roderick Bloem, Krishnendu Chatterjee, Thomas A. Henzinger and Barbara Jobstmann
Proceedings of Computer Aided Verification (CAV 2009)

240. *A Survey of Stochastic Games with Limsup and Liminf Objectives*
Krishnendu Chatterjee, Laurent Doyen and Thomas A. Henzinger
Proceedings of ICALP 2009

241. *Alternating Weighted Automata*
Krishnendu Chatterjee, Laurent Doyen and Thomas A. Henzinger
Proceedings of Fundamentals of Computation Theory (FCT 2009)

242. *Stochastic Games with Finitary Objectives*
Krishnendu Chatterjee, Thomas A. Henzinger and Florian Horn
Proceedings of MFCS 2009

243. *Expressiveness and Closure Properties for Quantitative Languages*
Krishnendu Chatterjee, Laurent Doyen and Thomas A. Henzinger
Proceedings of the 24th Annual Symposium on Logic in Computer Science (LICS 2009)

244. *Alpaga: A Tool for Solving Parity Games with Imperfect Information*
Dietmar Berwanger, Krishnendu Chatterjee, Martin de Wulf, Laurent Doyen and Thomas A. Henzinger

Proceedings of 15th International Conference on Tools and Algorithms for the Construction and Analysis of Systems (TACAS 2009)

245. *Termination Criteria for Solving Concurrent Safety and Reachability Games*
Krishnendu Chatterjee, Luca de Alfaro and Thomas A. Henzinger
Proceedings of 20th ACM-SIAM Annual Symposium on Discrete Algorithm (SODA 2009)

246. *Algorithms for Game Metrics*
Krishnendu Chatterjee, Luca de Alfaro, Rupak Majumdar and Vishwanath Raman
Proceedings of the 28th Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS 2008)

247. *The Complexity of Coverage*
Krishnendu Chatterjee, Luca de Alfaro and Rupak Majumdar
APLAS 2008

248. *Probabilistic Systems with LimSup and LimInf Objectives*
Krishnendu Chatterjee and Thomas A. Henzinger
ILC 2008

249. *Robust Content-Driven Reputation*
Krishnendu Chatterjee, Luca de Alfaro and Ian Pye
AISec 2008

250. *Assigning Trust to Wikipedia Content*
Bo T. Adler, Krishnendu Chatterjee, Luca de Alfaro, Marco Faella, Ian Pye and Vishwanath Raman
WikiSym: International Symposium on Wikis, 2008

251. *Timed Games: Complexity and Robustness*
Krishnendu Chatterjee, Thomas A. Henzinger and Vinayak Prabhu
FORMATS 2008

252. *Environment Assumptions for Synthesis*
Krishnendu Chatterjee, Thomas A. Henzinger and Barbara Jobstmann
Proceedings of 18th International Conference on Concurrency Theory (Concur 2008)

253. *Strategy Construction for Parity Games with Imperfect Information*
Dietmar Berwanger, Krishnendu Chatterjee, Laurent Doyen, Thomas A. Henzinger and Sangram Raje
Proceedings of 18th International Conference on Concurrency Theory (Concur 2008)

254. *Quantitative Languages*
Krishnendu Chatterjee, Laurent Doyen and Thomas A. Henzinger
Proceedings of the 17th Annual Conference of the European Association for Computer Science Logic (CSL 2008)

255. *Trading Infinite Memory with Uniform Randomness in Timed Games*
Krishnendu Chatterjee, Thomas A. Henzinger and Vinayak Prabhu
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256. *Controller Synthesis with Budget Constraints*
Krishnendu Chatterjee, Rupak Majumdar and Thomas A. Henzinger
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257. *Model Checking ω-Regular Properties of Interval Markov Chains*
Krishnendu Chatterjee, Koushik Sen and Thomas A. Henzinger
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258. *Reliability of Interacting Real-time tasks*
Krishnendu Chatterjee, Arkadeb Ghosal, Thomas A. Henzinger, Christoph Kirsch, Alberto Sangiovanni Vincentelli, Claudio Pinello and Daniel Irkan
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259. *Value Iteration*
Krishnendu Chatterjee and Thomas A. Henzinger
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260. *Stochastic Müller Games are PSPACE-complete*
Krishnendu Chatterjee
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261. *Markov Decision Processes with Multiple Long-run Average Objectives*
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262. *Qualitative Logics and Equivalences for Markov Decision Processes*
Luca de Alfaro, Krishnendu Chatterjee, Marco Faella and Axel Legay
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263. *Strategy Logic*
Krishnendu Chatterjee, Thomas A. Henzinger and Nir Piterman
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264. *Assume Guarantee Synthesis*
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265. *Generalized Parity Games*
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266. *Optimal Strategy Synthesis in Stochastic Müller Games*
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267. *Algorithms for Büchi Games*
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268. *Algorithms for Omega-Regular Games with Imperfect Information*
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269. *Concurrent Games with Tail Objectives*
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270. *Nash Equilibrium for Upward-Closed Objectives*
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271. *Quantitative Compositional Reasoning*
Krishnendu Chatterjee, Luca de Alfaro, Marco Faella, Thomas A. Henzinger, Rupak Majumdar and Marielle Stoelinga
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272. *Strategy Improvement for Concurrent Reachability Games*
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274. *Games for Controls*
Krishnendu Chatterjee, Radha Jagadeesan and Corin Pitcher
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275. *Finitary Winning in ω-Regular Games*
Krishnendu Chatterjee and Thomas A. Henzinger
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276. *Strategy Improvement and Randomized Subexponential Algorithms for Stochastic Parity Games*
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277. *Markov Decision Processes with Multiple Objectives*
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278. *The Complexity of Quantitative Concurrent Parity Games*
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279. *Semiperfect-Information Games*
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280. *Verifying Quantitative Properties using Bound Functions*
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281. *Two-player Nonzero-sum ω-regular Games*
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282. *Counterexample-guided Planning*
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284. *Mean-payoff Parity Games*
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285. *Trading Memory for Randomness*
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287. *Complexity of Compositional Model Checking of Computation Tree Logic on Simple Structures*
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288. *Games with Secure Equilibria*
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292. *Implementation of Shape Grammar for Plan Analysis*
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2. *Uniform Value and Decidability in Ergodic Blind Stochastic Games.*
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3. *Promoters of cooperation in evolutionary games.*
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4. *Maintaining diversity in structured populations.*
   David A. Brewster, Jakub Svoboda, Dylan Roscow, Krishnendu Chatterjee, Josef Tkadlec, and Martin A. Nowak.
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5. *Stable strategies of direct and indirect reciprocity across all social dilemmas.*
   Valentin Huebner, Laura Schmid, Christian Hilbe, and Krishnendu Chatterjee.
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6. *Learning Algorithms for Verification of Markov Decision Processes.*
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7. *Unilateral incentive alignment in two-player games.*
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8. *Hardware-Optimal Quantum Algorithms.*
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9. *Limitation of Time Promotes Cooperation in Structured Collaboration Systems.*
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11. *Entropic risk for turn-based stochastic games.*
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12. *Stochastic Processes with Expected Stopping Time.*
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13. *Density amplifiers of cooperation for spatial games.*
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14. *Value positivity of matrix games.*
    Krishnendu Chatterjee, Miquel Oliu-Barton, and Raimundo Saona.
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15. *Amplifiers of selection for the Moran process with both Birth-death and death-Birth updating.*
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16. *Efficiency and resilience of cooperation in asymmetric social dilemmas.*
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17. *Evolutionary dynamics of mutants that modify population structure*
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18. *The effect of environmental information on evolution of cooperation in stochastic games.*
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19. *Quantitative assessment can stabilize indirect reciprocity under imperfect information.*
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20. *Stochastic games with lexicographic objectives.*
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21. *Coexistence times in the Moran process with environmental heterogeneity.*
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23. *Social balance on networks: Local minima and best-edge dynamics.*
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25. *Direct reciprocity between individuals with different memory capacity.*
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26. *Graph Planning with Expected Finite Horizon*
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27. *Infection Dynamics of COVID-19 Virus under Lockdown and Reopening.*
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28. *The evolution of indirect reciprocity under action and assessment generosity.*
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29. *Fast and strong amplifiers of natural selection.*
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30. *A unified framework of direct and indirect reciprocity.*
    Laura Schmid, Krishnendu Chatterjee, Christian Hilbe, and Martin A. Nowak.
    Nature Human Behaviour
31. *Faster Algorithms for Quantitative Verification in Constant Treewidth Graphs*
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32. *Algorithms and Conditional Lower bounds for Planning Problems*
    Krishnendu Chatterjee, Wolfgang Dvorak, Monika Henzinger, and Alexander Svozil.
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33. *Finite-memory Strategies in POMDPs with Long-run Average Objectives.*
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34. *Mistakes can stabilise the dynamics of rock-paper-scissors games.*
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35. *Optimal Strategies for Selecting Coordinators.*
Martin Zeiner, Ulrich Schmid, and Krishnendu Chatterjee.
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36. *Prioritised Learning in Snowdrift-type Games.*
Maria Kleshnina, Sabrina Streipert, Jerzy Filar, and Krishnendu Chatterjee.
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37. *The Moran process on 2-chromatic graphs.*
Alex McAvoy, Kamran Kaveh, Krishnendu Chatterjee, Martin A. Nowak.
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38. *Limits on amplifiers of natural selection under death-Birth updating*
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39. *Faster Algorithms for Dynamic Algebraic Queries in Basic RSMs with Constant Treewidth*
Krishnendu Chatterjee, Amir Kafshdar Goharshady, Rasmus Ibsen-Jensen, Andreas Pavlogiannis and Prateesh Goyal
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40. *Quantitative Automata under Probabilistic Semantics*
Krishnendu Chatterjee, Thomas A. Henzinger, and Jan Otop
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41. *Social dilemma among unequals*
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42. *Non-polynomial Worst-Case Analysis of Recursive Programs*
Krishnendu Chatterjee, Hongfei Fu, and Amir Kafshdar Goharshady
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43. *Population structures determine fixation probability and fixation time trade-off*
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44. *Indirect reciprocity with private, noisy and incomplete information.*
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45. *Evolution of cooperation in stochastic games*
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46. *Construction of arbitrarily strong amplifiers of natural selection using evolutionary graph theory*
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47. *Algorithms for Algebraic Path Properties in Concurrent Systems of Constant Treewidth Components*
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48. *Language Acquistion with Communication between Learners*
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49. *Partners and rivals in direct reciprocity*
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50. *Crosstalk in concurrent repeated games impedes direct reciprocity and requires stronger levels of forgiveness*
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51. *Termination of Affine Probabilistic Programs*
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52. *Nested Weighted Automata*
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53. *Automated Competitive Analysis of Real-time Scheduling with Graphs and Games*
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54. *Optional interactions and suspicious behaviour facilitates trustful cooperation in prisoners dilemma*
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55. *The Complexity of Mean-Payoff Pushdown Games*
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56. *Unifying Two Views on Multiple Mean-Payoff Objectives in Markov Decision Processes*
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57. *Hyperplane Separation Technique for Multidimensional Mean-Payoff Games*
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58. *Memory-n strategies of direct reciprocity*
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59. *Improved Algorithms for One-Pair and k-Pair Streett Objectives*
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60. *Pushdown Reachability with Constant Treewidth*
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61. *Speical Issue of SYNT 2014*
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62. *Amplification on Undirected Population Structures: Comets Beat Stars*
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63. *Obligation Blackwell Games and p-Automata*
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64. *Edit Distance for Pushdown Automata*
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65. *The Natural History of Pancreatic Cancer Metastasis Is Dominated by Driver Gene Homogeneity*
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67. *Trading Performance for Stability in Markov Decision Processes*
Tomas Brazdil, Krishnendu Chatterjee, Vojtech Forejt, and Antonin Kucera
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68. *Temporal Logic Control for Stochastic Linear Systems using Abstraction Refinement of Probabilistic Games*
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69. *What is Decidable about Partially Observable Markov Decision Processes with omega-Regular Objectives*
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70. *Optimal Cost Almost-sure Reachability in POMDPs*
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72. *Doomsday Equilibria for Omega-Regular Games*
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73. *Quantitative Fair Simulation Games*
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74. *Cellular cooperation with shift updating and repulsion*
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75. *Evolution of decisions in population games with sequentially searching individuals*
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76. *CEGAR for Compositional Analysis of Qualitative Properties in Markov Decision Processes*

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78. *Biological Auctions with Multiple Rewards*
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79. *The Complexity of Multi-Mean-Payoff and Multi-Energy Games*
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80. *Quantitative Temporal Simulation and Refinement Distances for Timed Systems*
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81. *Clonal evolution defines the natural history of metastatic pancreatic cancer*
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84. *Average Case Analysis of the Classical Algorithm for Markov Decision Processes with Büchi Objectives*
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85. *Measuring and Synthesizing Systems in Probabilistic Environments*
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86. *Probabilistic Opacity for Markov Decision Processes*
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87. *The Time Scale of Evolutionary Innovation*
Krishnendu Chatterjee, Andreas Pavlogiannis, Ben Adlam and Martin A. Nowak
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88. *Speical Issue of MFCS 2013*
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89. *Approximating the minimum cycle mean*
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90. *Qualitative Analysis of Concurrent Mean-payoff Games*
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91. *Looking at Mean-Payoff and Total-Payoff through Windows*
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92. *Temporal Specifications with Accumulative Values*
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93. *Efficient and Dynamic Algorithms for Alternating Büchi Games and Maximal End-component Decomposition*
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94. *Partial-Observation Stochastic Games: How to Win when Belief Fails*
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95. *Polynomial-time Algorithms for Energy Games with Special Weight Structures*
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96. *Forgiver triumphs in alternating Prisoner's Dilemma*
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97. *Synthesizing Robust Systems*
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98. *Strategy Synthesis for Multi-dimensional Quantitative Objectives*
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99. *Evolutionary dynamics of cancer in response to targeted combination therapy*
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101. *Assume-gurantee Synthesis for Digital Contract Signing*
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Formal Aspects of Computing (FAOC)

102. *Synthesis of Memory-Efficient, Clock-Memory Free, and Non-Zeno Safety Controllers for Timed Systems*
Krishnendu Chatterjee and Vinayak Prabhu
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103. *Markov Decision Processes with Multiple Long-run Average Objectives*
Tomas Brazdil, Vaclav Brozek, Krishnendu Chatterjee, Vojtech Forejt, and Antonin Kucera
Logical Methods in Computer Science (LMCS)

104. *Symbolic Algorithms for Qualitative Analysis of Markov Decision Processes with Buchi Objectives*

Krishnendu Chatterjee, Monika Henzinger, Manas Joglekar and Nisarg Shah
Formal Methods in System Design (FMSD)

105. *Strategy Improvement for Concurrent Reachability and Turn-based Safety Games*
Krishnendu Chatterjee, Luca de Alfaro and Thomas A. Henzinger
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106. *The Effect of One Additional Driver Mutation on Tumor Progression*
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107. *Code Aware Resource Management*
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Formal Methods in System Design (FMSD)

108. *Energy Parity Games*
Krishnendu Chatterjee and Laurent Doyen
Theoretical Computer Science (TCS)

109. *The Complexity of Coverage*
Krishnendu Chatterjee, Luca de Alfaro and Rupak Majumdar
International Journal of Foundations of Computer Science (IJFCS)

110. *A Survey of Partial-Observation Stochastic Parity Games*
Krishnendu Chatterjee, Laurent Doyen and Thomas A. Henzinger
Formal Methods in System Design (FMSD)

111. *Evolutionary game dynamics in populations with different learners*
Krishnendu Chatterjee, Damien Zufferey and Martin A. Nowak
Journal of Theoretical Biology (JTB)

112. *The Complexity of Stochastic Muller Games*
Krishnendu Chatterjee
Information and Computation

113. *Discounting and Averaging in Games Across Time Scales*
Krishnendu Chatterjee and Rupak Majumdar
International Journal of Foundations of Computer Science (IJFCS)

114. *Evolutionary Dynamics of Biological Auctions*
Krishnendu Chatterjee, Johannes Reiter and Martin A. Nowak
Journal of Theoretical Population Biology (JTPB)

115. *Synthesis of AMBA AHB from Formal Specifications: A Case Study*
Yashdeep Godhal, Krishnendu Chatterjee and Thomas A. Henzinger
Journal on Software Tools for Technology Transfer (STTT)

116. *Timed Games: Complexity and Robustness*
Krishnendu Chatterjee, Thomas A. Henzinger and Vinayak Prabhu
Logical Methods in Computer Science (LMCS)

117. *Qualitative Concurrent Parity Games*
Krishnendu Chatterjee, Luca de Alfaro and Thomas A. Henzinger
ACM ToCL

118. *Expressiveness and Closure Properties for Quantitative Languages*
Krishnendu Chatterjee, Laurent Doyen and Thomas A. Henzinger
Logical Methods in Computer Science (LMCS)

119. *Algorithms for Game Metrics*
Krishnendu Chatterjee, Luca de Alfaro, Rupak Majumdar and Vishwanath Raman
Logical Methods in Computer Science (LMCS)

120. *Quantitative Languages*
Krishnendu Chatterjee, Laurent Doyen and Thomas A. Henzinger
ACM ToCL

121. *Strategy Construction for Parity Games with Imperfect Information*
Dietmar Berwanger, Krishnendu Chatterjee, Laurent Doyen, Thomas A. Henzinger and Sangram Raje
Information and Computation

122. *Strategy Logic*
Krishnendu Chatterjee, Thomas A. Henzinger and Nir Piterman
Information and Computation

123. *Qualitative Logics and Equivalences for Markov Decision Processes*
Krishnendu Chatterjee, Luca de Alfaro, Marco Faella and Axel Legay
Logical Methods in Computer Science (LMCS)

124. *Finitary Winning in ω-Regular Games*
Krishnendu Chatterjee, Thomas A. Henzinger and Florian Horn
ACM Transactions on Computational Logic (TOCL)

125. *Reduction of Stochastic Parity to Stochastic Mean-payoff Games*
Krishnendu Chatterjee and Thomas A. Henzinger
Information Processing Letters (IPL)

126. *Concurrent Games with Tail Objectives*
Krishnendu Chatterjee
Theoretical Computer Science (TCS)

127. *Stochastic Limit-average Games are in EXPTIME*
Krishnendu Chatterjee, Rupak Majumdar and Thomas A. Henzinger
International Journal of Game Theory

128. *A Survey of Stochastic ω-regular Games*
Krishnendu Chatterjee and Thomas A. Henzinger
Journal of Computer Science and Systems (JCSS)

129. *Algorithms for Omega-Regular Games with Imperfect Information*
Krishnendu Chatterjee, Laurent Doyen, Thomas A. Henzinger and Jean-Francois Raskin
Logical Methods in Computer Science (LMCS) 3 (3), 2007

130. *Games with Secure Equilibria*
Krishnendu Chatterjee, Thomas A. Henzinger and Marcin Jurdziński
Theoretical Computer Science (TCS) 365 (2), 67-82, 2006

131. *The Power of First Order Quantification over States in Branching and Linear Time Temporal Logics*
Krishnendu Chatterjee, Pallab Dasgupta and P.P. Chakrabarti
Information Processing Letters (IPL) 91 (5) 201-210, 2004

132. *Stack Size Analysis of Interrupt Driven Programs*
Krishnendu Chatterjee, Di Ma, Rupak Majumdar, Tian Zhao, Thomas A. Henzinger and Jens Palsberg
Information and Computation, 194 (2), 144-174, 2004

133. *A Branching Time Temporal Framework For Quantitative Reasoning*
Krishnendu Chatterjee, Pallab Dasgupta and P.P. Chakrabarti
Journal of Automated Reasoning (JAR) 30 (2), 205-232, 2003

Tools Associated With

1. *QUASY.*
2. *CHIC* (Checking Interface Compatibility).

3. *WikiTrust*.
4. *Alpaga*.
5. *GIST*.
6. *TTP*.
7. *MultiGain*.

Patents

1. **IBM Invention Disclosure:** " Remote Authentication of Fingerprints Over An Insecure Network" (United States Patent 6778688)
   Pradeep Kumar Dubey, Pooja Aggarwal, Krishnendu Chatterjee, Charanjit Singh Jutla and Vijay Kumar.

Grants

1. ERC Start Grant.
2. Microsoft Faculty Fellowship Award Grant.
3. FWF Grant (with Monika Henzinger).
4. FWF NFN Grant ARiSE.
5. WWTF Grant (with Monika Henzinger).
6. ERC Consolidator Grant.
7. Cluster of Excellence BILAI.
8. WWTF Grant: PROMPT (with Laura Kovacs and Ezio Bartocci).

Invited Talks and Tutorials

1. PAuL (Workshop) 2006.
2. MFCS (Conference) 2009.
3. MOVEP Summer School 2010.
4. LPAR (Conference) 2010.
5. Paris Games Meeting (Workshop) 2010.
6. Brno Colloquium 2010.
7. ARTEMIS (Workshop) 2011.
8. QEST (Conference) Tutorial 2011.
9. FMR (Workshop) 2011.
10. Reachability Problems (Workshop) 2011.
11. Harvard EconCS Seminar 2011.
12. ULB (Brussels) Seminar 2011.
13. GASICS/DOTS (Workshop) 2011.
14. MEMICS, (Workshop) 2011.
15. Vienna Winter School 2012.
16. Paris LIP6 invited seminar, 2012.
17. GAMES Meeting 2012.
18. IIT Kharagpur IEEE Seminar, 2012.
19. ENS Cachan Seminar, 2013.
20. Winter School at IST, 2013.
21. Strategic Reasoning Workshop ETAPS, 2013.
22. MFCS 2014.
23. ATVA 2014 (Tutorial and invited talk).

24. ICALP Workshop: Games in Theory and Practice, 2018.

Thesis Review Committee

1. Thesis proposal review: Jan Kretinsky; Petr Novotny.
2. Qualifying exam committee: Damien Zufferey; Anmol Tomar; Arjun Radhakrishna; Johannes Reiter; Martin Chmelik; David Hahn; Andreas Pavlogiannis; Thosten Tarrach, Hamza Abusallah, Bernhard Kragl, Josef Tkadlec, Amir Goharshady, Viktor Toman, Laura Schmid, Michelle Yeo, Djordje Zikelic, Raimundo Saona, Jakub Svoboda.
3. Thesis review committee: Ocan Sankur, Julie De Pril, Arjun Radhakrishna, Guillermo Perez, Thorsten Tarrach, Hamza Abusallah.
4. Qualifying exam chair: Dominik Schroder.
5. Thesis defense chair: Viktoriia Sharmanska, Dominik Schroder.

Technical Reports (that have not appeared in proceedings of Conferences or Journals)

1. *Linear Time Algorithm for Weak Parity Games*
   Krishnendu Chatterjee
   Technical Report: EECS-2006-153, EECS Department, University of California, Berkeley, 2006.
2. *Stochastic ω-Regular Games*
   Krishnendu Chatterjee
   Thesis for partial fulfillment of Ph.D, UC Berkeley
3. *Stack-size analysis for Interrupt Driven Programs*
   Krishnendu Chatterjee
   Thesis for partial fulfillment of Master of Science, UC Berkeley
4. *Weighted Quantified CTL: An efficient logic for verifying extremal timing properties of Timed Model*
   Krishnendu Chatterjee
   Thesis for partial fulfillment of Bachelor of Technology (Hons) degree, Indian Institute of Technology, Kharagpur

References

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