## Conference Publications<sup>1</sup>

Alexander Pluska, Pascal Welke, Thomas Gärtner and Sagar Malhotra.

Logical Distillation of Graph Neural Networks
International Conference on Principles of Knowledge Representation and Reasoning 2024

KR 2024 (CORE Rank A\*, 17% acceptance rate in the special track)

Florian Chen, Felix Weitkämper, and Sagar Malhotra.
Understanding Domain-Size Generalization in Markov Logic Networks
Machine Learning and Knowledge Discovery in Databases. Research Track - European Conference,
ECML PKDD 2024
ECML PKDD 2024 (CORE Rank A, 24% acceptance rate)

Alessandro Daniele, Tommaso Campari, Sagar Malhotra and Luciano Serafini Simple and Effective Transfer Learning for Neuro-Symbolic Integration International Conference on Neural-Symbolic Learning and Reasoning, NeSy 2024 NeSy 2024 (Accepted as full paper with a spotlight presentation)

Alessandro Daniele, Tommaso Campari, Sagar Malhotra and Luciano Serafini.

Deep Symbolic Learning: Discovering Symbols and Rules from Perception

International Joint Conference on Artificial Intelligence 2023

IJCAI 2023 (CORE Rank A\*, 15% acceptance rate)

Sagar Malhotra and Luciano Serafini
On Projectivity in Markov Logic Networks
Machine Learning and Knowledge Discovery in Databases. Research Track - European Conference,
ECML PKDD 2022
ECML PKDD 2022(CORE Rank A, 26% acceptance rate).

Sagar Malhotra and Luciano Serafini

2022

2022

2021

2024

Weighted Model Counting in FO<sup>2</sup> with Cardinality Constraints and Counting Quantifiers: A Closed Form Formula

AAAI Conference on Artificial Intelligence 2022

AAAI 2022 (CORE Rank A\*, 15% acceptance rate, accepted as oral presentation)

Sagar Malhotra and Luciano Serafini

A Combinatorial Approach to Weighted Model Counting in the Two Variable Fragment with Cardinality Constraints

International Conference of the Italian Association for Artificial Intelligence 2019
AIXIA 2021

## Workshop Publications<sup>1</sup>

Patrick Indri, <u>Peter Blohm</u>, Anagha Athavale, Ezio Bartocci, Georg Weissenbacher, Matteo Maffei, Dejan Nickovic, Thomas Gärtner, **Sagar Malhotra**Distillation based Robustness Verification with PAC Guarantees
Next Generation of AI Safety Workshop, ICML 2024
NextGenAlSafety, ICML 2024

<sup>&</sup>lt;sup>1</sup>Supervised student coauthors are underlined.

- Alexander Pluska, Pascal Welke, Thomas Gärtner and Sagar Malhotra.
  Logical Distillation of Graph Neural Networks
  Workshop on Mechanistic Interpratability, ICML 2024
  MI Workshop, ICML 2024
- Alessandro Daniele, Tommaso Campari, **Sagar Malhotra** and Luciano Serafini.

  Deep Symbolic Learning: Discovering Symbols and Rules from Perception

  International Workshop on Neural-Symbolic Learning and Reasoning 2023

  NeSy 2023 (Accepted for spotlight presentation)
- Sagar Malhotra and Luciano Serafini
  On Projectivity in Markov Logic Networks
  International Workshop on Probabilistic Logic Programming 2022
  PLP 2022
- Sagar Malhotra and Luciano Serafini. Weighted Model Counting in FO<sup>2</sup> with Cardinality Constraints and Counting Quantifiers: A Closed Form Formula International Workshop on Statistical Relational AI, IJCLR 2021.

  StarAI, IJCLR 2021
- Sagar Malhotra and Luciano Serafini. Weighted Model Counting in C<sup>2</sup> (Abstract)
  Workshop on Machine Learning and Data Mining, AIxIA 2020
  MLDM 2020

## Preprints<sup>1</sup>

- Davide Bizzaro, Luciano Serafini and Sagar Malhotra
  Towards Counting Markov Equivalence Classes with Logical Constraints
  Arxiv
- Sagar Malhotra, <u>Davide Bizzaro</u> and Luciano Serafini Lifted Inference beyond First Order Logic Under Review at Artificial Intelligence Journal (Major Revision) Arxiv

<sup>&</sup>lt;sup>1</sup>Supervised students coauthors are underlined