

Bishwamittra Ghosh

Personal Details

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Date of Birth: 28 November 1995

Website: <https://bishwamittra.github.io>

Research Interest

My research interest is in deploying machine learning in high-stake decision-making. I apply formal methods to verify and improve fairness, interpretability, and explainability in machine learning.

Education

National University of Singapore, Singapore

2018 - Present

Ph.D. candidate, School of Computing

Adviser: Dr. Kuldeep S. Meel

Bangladesh University of Engineering and Technology, Bangladesh

2013 - 2017

BSc. with Honors degree in Computer Science and Engineering

Publications¹

8. [Efficient Learning of Interpretable Classification Rules](#)
Bishwamittra Ghosh, Dmitry Malioutov, Kuldeep S. Meel
Proceedings of JAIR, 2022
7. [Algorithmic Fairness Verification with Graphical Models](#)
Bishwamittra Ghosh, Debabrota Basu, Kuldeep S. Meel
Proceedings of AAAI, 2022
6. [Justicia: A Stochastic SAT Approach to Formally Verify Fairness](#)
Bishwamittra Ghosh, Debabrota Basu, Kuldeep S. Meel
Proceedings of AAAI, 2021
5. [Social-Spatial Group Queries with Keywords](#)
Sajid Hasan Apon, Mohammed Eunus Ali, **Bishwamittra Ghosh**, Timos Sellis
ACM Transactions on Spatial Algorithms and Systems (TSAS), 2021
4. [A MaxSAT-based Framework for Group Testing](#)
Lorenzo Ciampiconi, **Bishwamittra Ghosh**, Jonathan Scarlett, Kuldeep S. Meel
Proceedings of AAAI, 2020
3. [Classification Rules in Relaxed Logical Form](#)
Bishwamittra Ghosh, Dmitry Malioutov, Kuldeep S. Meel
Proceedings of ECAI, 2020
2. [IMLI: An Incremental Framework for MaxSAT-Based Learning of Interpretable Classification Rules](#)
Bishwamittra Ghosh, Kuldeep S. Meel
Proceedings of AIES, 2019
1. [The Flexible Socio Spatial Group Queries](#)
Bishwamittra Ghosh, Mohammed Eunus Ali, Farhana M. Choudhury, Sajid Hasan Apon, Timos Sellis, Jianxin Li
Proceedings of the VLDB Endowment (PVLDB), 2018

¹sorted by publication year

Professional Experiences

Conference Talks

AAAI-2022, AAAI-2021, AAAI-2020, ECAI-2020, CP-2019, VLDB-2019, IJCAI-2019, AIES-2019

Academic Reviewer

NeurIPS-2021, 2022, AAAI-2022, AIES-2022,

Research Internship

- INRIA, Lille-Nord, France 2021
- Goldman Sachs, Singapore 2021
- Max Planck Institute For Software Systems, Kaiserslautern, Germany 2020

Graduate Assistant

School of Computing, National University of Singapore 2018 - 2021

Reference

Kuldeep S. Meel

Sung Kah Kay Assistant Professor

School of Computing, National University of Singapore, Singapore

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Daniel Neider

Professor

Carl von Ossietzky Universität Oldenburg, Germany

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Debabrota Basu

Faculty

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