Stylianos Loukas Vasileiou
Department of Computer Science & Engineering
James McKelvey School of Engineering
Washington University in St. Louis
St. Louis, MO 63130
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Research Interests

Explainability, Human-Aware AI, Logic, Neuro-Symbolic AI.

Education

Ph.D. in COMPUTER SCIENCE 2024 (Expected)
Thesis (tentative): "The Art of Explanation: From Logic to Human-Aware AI Agents"
Advisor: Prof. William Yeoh
Washington University in St. Louis, U.S.A

M.Sc. in ARTIFICIAL INTELLIGENCE 2017
Thesis: "Asthma Attack Prediction: A Machine Learning Approach"
Advisor: Prof. Long Tran-Thanh
University of Southampton, U.K

M.Sc. in APPLIED MATHEMATICS 2016
Thesis: "Feedback between Mechanical Contraction and Electrical Excitation in Cardiac Cells"
Advisor: Prof. Radostin Simitev
University of Glasgow, U.K

B.Sc. in STATISTICS AND ACTUARIAL- FINANCIAL MATHEMATICS 2014
Thesis: "Mathematical Modeling of Micro-Electromechanical Systems"
Advisor: Prof. Nikolaos Kavalaris
University of the Aegean, Greece

Publications

Journal Articles

1. Stylianos Loukas Vasileiou, William Yeoh, Tran Cao Son, Ashwin Kumar, Michael Cashmore, and Daniele Magazzeni. A logic-based explanation generation framework for classical and hybrid planning problems. *Journal of Artificial Intelligence Research (JAIR)*, 2022

Conference Papers

7. Stylianos Loukas Vasileiou and William Yeoh. Please: Generating personalized explanations in human-aware planning. In *European Conference on Artificial Intelligence (ECAI)*, 2023

6. Stylianos Loukas Vasileiou, Xu Borong, and William Yeoh. A logic-based framework for explainable agent scheduling problems. In *European Conference on Artificial Intelligence (ECAI)*, 2023

5. Ashwin Kumar, Stylianos Loukas Vasileiou, Melanie Bancilhon, Alvitta Ottley, and William Yeoh. Vizxp: A visualization framework for conveying explanations to users in model reconciliation problems. In *International Conference on Automated Planning and Scheduling (ICAPS)*, 2022

4. Stylianos Loukas Vasileiou, Alessandro Previti, and William Yeoh. On exploiting hitting sets for model reconciliation. In *AAAI Conference on Artificial Intelligence (AAAI)*, 2021

3. Son Tran Cao, Van Nguyen, Stylianos Loukas Vasileiou, and William Yeoh. Model reconciliation in logic programs. In *European Conference on Logics in AI (JELIA)*, 2021

2. Son Tran Cao, Van Nguyen, Stylianos Loukas Vasileiou, and William Yeoh. Conditional updates of logic programs and its applications (poster presentation). In *International Conference on Principles of Knowledge Representation and Reasoning (KR)*, 2020

1. Van Nguyen, Stylianos Loukas Vasileiou, Son Tran Cao, and William Yeoh. Explainable planning using answer set programming. In *International Conference on Principles of Knowledge Representation and Reasoning (KR)*, 2020

Workshop Papers (Refereed)

6. Stylianos Loukas Vasileiou, Ashwin Kumar, William Yeoh, Son Tran Cao, and Francesca Toni. Dr-hai: Argumentation-based dialectical reconciliation in human-ai interactions. In *International Joint Conference on Artificial Intelligence (IJCAI) Workshop on Explainable AI*, 2023

5. Andrew Estornell, Stylianos Loukas Vasileiou, William Yeoh, and Daniel Borrajo. Predicting customer goals in financial institution services: A data-driven lstm approach. In *International Conference on Automated Planning and Scheduling (ICAPS) Workshop on Financial Planning*, 2023

4. Stylianos Loukas Vasileiou, Ashwin Kumar, and William Yeoh. On generating personalized explanations via knowledge forgetting. In *International Joint Conference on Artificial Intelligence (IJCAI) Workshop on XAI*, 2022

3. Stylianos Loukas Vasileiou, William Yeoh, Son Tran Cao, and Alessandro Previti. Explanations as model reconciliation via probabilistic logical reasoning. In *Conference on Principles of Knowledge Representation and Reasoning (KR) Workshop on Explainable Logic*, 2021

2. Stylianos Loukas Vasileiou, William Yeoh, and Tran Cao Son. On the relationship between kr approaches for explainable planning. In *International Conference on Automated Planning and Scheduling (ICAPS) Workshop on XAIP*, 2020

1. Stylianos Loukas Vasileiou, Son Tran Cao, and William Yeoh. A preliminary logic-based approach for explanation generation. In *International Conference on Automated Planning and Scheduling (ICAPS) Workshop on Explainable AI Planning*, 2019

Service

Organizing Committee

- International Conference on Automated Planning and Scheduling (ICAPS) Workshop on Human-Aware and Explainable Planning (HAXP) 2023
- International Conference on Automated Planning and Scheduling (ICAPS) Workshop on Explainable AI Planning (XAIP) 2021-2022

Program Committee/Reviewer

- Association for the Advancement of Artificial Intelligence (AAAI) 2024
- European Conference on Artificial Intelligence (ECAI) 2023
- International Joint Conference on Artificial Intelligence (IJCAI) 2023
- International Conference on Autonomous Agents and Multiagent Systems (AAMAS) 2020, 2023-2024
- International Conference on Automated Planning and Scheduling (ICAPS) 2022
- Artificial Intelligence Journal (AIJ) 2023
- International Joint Conference on Artificial Intelligence (IJCAI) Workshop on Explainable AI (XAI) 2023
- International Conference on Automated Planning and Scheduling (ICAPS) Workshop on Explainable AI Planning (XAIP) 2020

Other Activities

- We Belong CS@WashU: Talk on *Introduction to AI* Sep. 2021
- We Belong CS@WashU: Talk on *Game Playing AI* Jan. 2020
- We Belong CS@WashU: Member of the organization team Jan. 2020
- Parkway North High School (St. Louis, MO): Workshop on *Introduction to AI* Nov. 2019