

Seminar Causal Inference: Papers

Fundamentals

Equivalence and Synthesis of Causal Models	https://arxiv.org/abs/1304.1108
Causal Models for Dynamical Systems	https://arxiv.org/abs/2001.06208

Machine Learning

Causality for Machine Learning	https://arxiv.org/abs/1911.10500
Causal Representation Learning	https://arxiv.org/abs/2102.11107
Towards Causal Representation Learning	https://arxiv.org/abs/2102.11107
Causal Machine Learning: A Survey and Open Problems	https://arxiv.org/abs/2206.15475

Causal Discovery / Inference

Causal inference using invariant prediction	https://arxiv.org/abs/1501.01332
Differentiable Causal Discovery from Interventional Data	https://arxiv.org/abs/2007.01754
Amortized Inference for Causal Structure Learning	https://arxiv.org/abs/2205.12934

Causal Optimal Transport

Optimal Transport and Wasserstein Distances for Causal Models	https://arxiv.org/abs/2303.14085
A Primer on Optimal Transport for Causal Inference	https://arxiv.org/abs/2503.07811

Theory

Causal Modeling with Stationary Diffusions	https://arxiv.org/abs/2310.17405
A Measure-Theoretic Axiomatisation of Causality	https://arxiv.org/abs/2305.17139
Quantum Causal Modelling	https://arxiv.org/abs/1512.07106
Quantum Causal Models (Ch. 2,3,4)	https://arxiv.org/abs/1906.10726

Legend:

- Bachelor's Seminar
- Bachelor's, but can also be masters,
- Masters', can also be bachelors' ;)

In case you are not able to find a suitable paper and need some help,
please write to us :)

That also applies if you have any questions / suggestions.