Monday 22 July 2024

11:00-12:30   Invited Session 1 (Main Room)

Causal Inference and Machine Learning (Chair: Els Goetghebeur)

Causal Machine Learning with DoubleML: An Introduction and Applications

Martin Spindler (Universität Hamburg, Germany)

Causal Machine Learning (CausalML) has emerged as new field combining causal inference and modern machine learning methods. The so-called Double / Debiased Machine Learning (DML) allows for valid inference in high-dimensional complex settings using ML. In this talk an introduction to the DML framework and the DoubleML package (R/Python) is given. Moreover, applications and use cases in health economics are presented and an outlook to recent developments is given.