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Supervised Learning without Discrimination

MONDAY, November 7, 2016, at 4:00 PM Eckhart 133, 5734 S. University Avenue *Refreshments following the seminar in Jones 111*

ABSTRACT

As machine learning increasingly replaces human judgment in decisions protected by anti discrimination law, the problem of algorithmicly measuring and ensuring fairness in machine learning is pressing. What does it mean for a predictor to not discriminate with respect to protected group (e.g. according to race, gender, etc)? We propose a notion of non-discrimination that can be measured statistically, used algorithmicly, and avoids many of the pitfalls of previous definitions. We further study what type of discrimination and non-discrimination can be identified with oblivious tests, which treat the predictor as an opaque black-box, and what different oblivious tests tell us about possible discrimination.

Joint work with Mortiz Hardt and Eric Pierce

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