



THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Computer Science Seminar

,The Wolfson Auditorium Building
on Thursday, Dec 13, 2018
at 11:30

WOLFSON AUDITORIUM

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Fairness in Algorithmic Decision Making

Abstract:

In this talk we survey some formulations of fairness requirements for decision making under uncertainty. We then discuss results from 3 recent papers:

1. Treating individuals fairly is not in conflict with long-term scientific learning goals if the population is sufficiently diverse.
2. When there is a pipeline of decisions, end-to-end fairness is impossible to achieve even in a very simple model.
3. Exploiting the knowledge acquired by others can unfairly advantage the free rider.

These papers are joint work with a number of co-authors:

Christopher Jung, Neil Lutz, Jamie Morgenstern, Aaron Roth, Bo Waggoner, Steven Wu, and Juba Ziani