Department of Computer Science
香港城市大學
City University of Hong Kong

COMPUTER SCIENCE COLLOQUIUM

Lecture 1: Matching Theory and Market Design; Lecture 2: Efficient, Fair, and Incentive-Compatible Healthcare Rationing

SPEAKER **Haris Aziz**

Scientia Associate Professor
The University of New South Wales, Sydney, Australia

DATE 16 Nov, 2021 (Tue)
TIME 2:00 PM - 4:00 PM
VENUE Online via zoom: https://cityu.zoom.us/j/99306765640

ABSTRACT

Lecture 1: Matching Theory and Market Design - This lecture's main goal will be to cover the basics of matching theory (as a fundamental topic of combinatorial optimization with important applications to market design). We will study important matching market design problems, and understand their algorithmic solutions. Lecture 2: Efficient, Fair, and Incentive-Compatible Healthcare Rationing - This lecture is more research oriented and will present some recent results on an algorithm that has wide applications including that for healthcare rationing. The lecture will highlight how the central concepts learnt in Lecture 1 can help solve new market design problems.

BIOGRAPHY

Haris Aziz is a Scientia Associate Professor at UNSW Sydney and leader of the Algorithmic Decision Theory group. His research interests lie at the intersection of artificial intelligence, theoretical computer science and mathematical social sciences ---, especially computational social choice and algorithmic game theory. Haris is a recipient of the Scientia Fellowship (2018 -), CORE Chris Wallace Research Excellence Award (2017) and the Julius Career Award (2016 - 2018). In 2015, he was selected by the Institute of Electrical and Electronics Engineers (IEEE) for the AI 10 to Watch List. He is on the board of directors of IFAAMAS and is an associate editor of major journals including AIJ, JAIR, JAAMAS, and Social Choice & Welfare.

All are welcome!

In case of questions, please contact Professor Minming LI at minming.li@cityu.edu.hk, or visit the CS Departmental Seminar Web at https://www.cs.cityu.edu.hk/news/seminars/.