

Invitation to the Oral Examination – Department CS

For the occasion of her examination for a Doctoral Degree,

Eleni Batziou

will present her dissertation entitled

Auction Design in the Presence of Financial Constraints

on **13. November 2024** at **10.00 h (CET)**

Attendance to the presentation is open to the public. The presentation will be in English.

The candidate, all members of the Examination Committee, and authorized examiners of the TUM School of CIT are invited to the presentation and subsequent oral examination.

The presentation and subsequent examination will take place online via BBB:

<https://bbb.cit.tum.de/ste-uc0-dck-0vd>

Examination committee:

Chair: **Prof. Stefanie Rinderle-Ma**

First Examiner: **Prof. Martin Bichler**

Second Examiner: **Prof. Susanne Albers**

Garching, the **24** of **October 2024**

Mailing list:

Members of the examination committee

Doctoral candidate

Abstract:

This work explores the impact of financial constraints in the study of auctions and mechanisms. Reaching

efficient and stable outcomes is a key goal in market design, and the introduction of budgets poses challenges. We investigate simple models where bidders are subject to constraints and reverse auctions with a budgeted

auctioneer. Furthermore, we address the problem of computing efficient allocations with reduced communication complexity, by leveraging learning methods to enhance preference elicitation.