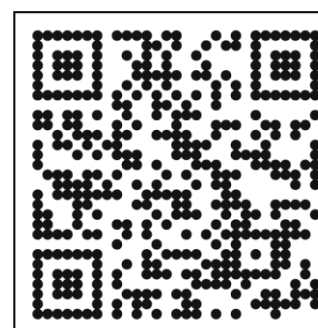




北京大学前沿计算研究中心
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静园5号院

青年讲座



The Mysterious Query Complexity of Tarski Fixed Points



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a fifth-year PhD student
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🎤 Host: 邓小铁 教授

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📍 静园五院102室



Abstract

Tarski's fixed point theorem has extensive applications across many fields, including verification, semantics, game theory, and economics. Recently, the complexity of finding a Tarski fixed point has attracted significant attention.

In this talk, I will introduce the problem of computing a Tarski fixed point over a grid $[N]^d$, highlight recent progress toward a better understanding of it, and discuss the surprising journey and the mysteries surrounding its complexity.

Based on joint work with Xi Chen and Mihalis Yannakakis.

Biography

Yuhao Li is a fifth-year PhD student in the theory group at Columbia University, advised by Xi Chen and Rocco Servedio. Prior to that, he got a B.Sc. degree in computer science from Peking University, advised by Xiaotie Deng. He is broadly interested in theoretical computer science, with a particular focus on complexity theory.