Algorithms for Uncertain Environments: Going Beyond the Worst-Case

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Abstract
Analyzing the performance of algorithms in both the worst case and the average case are cornerstones of computer science: these are two different ways to understand how well algorithms perform. Over the past two decades, there has been a concerted effort to understand the performance of algorithms in models that go beyond these two extremes. In this talk I will discuss some of the proposed models and approaches, particularly for problems related to online algorithms, where decisions must be made sequentially without knowing future portions of the input.

2012 ACM Subject Classification Theory of computation → Online algorithms

Keywords and phrases Optimization under Uncertainty, Online Algorithms, Beyond Worst Case Analysis

Digital Object Identifier 10.4230/LIPIcs.FSTTCS.2022.1

Category Invited Talk