Discrete Routing Games over a Simple Non-Cooperative Network

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Recent years have witnessed an explosive growth to interest in theoretical models for selfish routing over non-cooperative networks, and their associated Nash equilibria. Most of the interesting questions have been addressed in the context of a very simple non-cooperative network, consisting of just two nodes and a collection of parallel links joining them. In this series of lectures, we will summarize the most important milestones of what is currently known about this very simple network. We will put emphasis on the impact of particular model assumptions on the properties of Nash equilibria, and we will survey such results across several recently proposed models.