

How to Deal with Interference in Wireless Networks - Recent Insights from Network Information Theory

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Tutorial

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Abstract: Interference is the primary bottleneck on the capacity of wireless networks. Understanding how to optimally deal with interference is the holy grail of network information theory. In recent years, the renewed focus on this long standing open problem has produced remarkable progress. This tutorial will summarize the recent insights that have emerged from the capacity study of a variety of wireless network scenarios. The focus of the tutorial will be on intuitive understanding of the key information theoretic techniques for interference management such as interference alignment, interference forwarding, interference neutralization, interference avoidance, interference cancellation, and the so called reverse-carpooling ideas from network coding.

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