Interference Alignment in Wireless Networks

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Abstract

Interference alignment is a recent development that has emerged from capacity analysis of wireless networks. The concept has challenged much of the conventional wisdom about capacity and throughput limits of wireless networks. Particularly, recent developments show that using the interference alignment, the capacity of wireless networks is not necessarily interference-limited as conventionally believed. In this seminar, the idea of interference alignment is introduced along with diverse settings in which it can be applied.

Bio

Alireza Babaei is currently a research scientist at Wireless@VT research center in Virginia Tech. He received his PhD in Electrical and Computer Engineering from George Mason University in 2009. Prior to his current position, he was a Postdoctoral Fellow in Wireless Engineering Research and Education Center at Auburn University. He has served as guest editor, symposium chair and technical program committee member for various journals and conferences. His areas of active research include interference characterization and avoidance in wireless networks, cognitive radio networks, and network modeling and simulation.

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