

Probabilistic methods and distributed information: Rudolf Ahlswedes lectures on information theory 5

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Abstrak

The fifth volume of Rudolf Ahlswedes lectures on Information Theory focuses on several problems that were at the heart of a lot of his research. One of the highlights of the entire lecture note series is surely Part I of this volume on arbitrarily varying channels (AVC), a subject in which Ahlswede was probably the worlds leading expert. Appended to Part I is a survey by Holger Boche and Ahmed Mansour on recent results concerning AVC and arbitrarily varying wiretap channels (AVWC). After a short Part II on continuous data compression, Part III, the longest part of the book, is devoted to distributed information. This Part includes discussions on a variety of related topics; among them let us emphasize two which are famously associated with Ahlswede: multiple descriptions, on which he produced some of the best research worldwide, and network coding, which had Ahlswede among the authors of its pioneering paper. The final Part IV on Statistical Inference under Communication constraints is mainly based on Ahlswedes joint paper with Imre Csiszar, which received the Best Paper Award of the IEEE Information Theory Society.