



# Distributed Multiple Description Coding: Principles, Algorithms and Systems

*Huihui Bai, Anhong Wang, Yao Zhao, Jeng-Shyang Pan, Ajith Abraham*

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**Distributed Multiple Description Coding: Principles, Algorithms and Systems** Huihui Bai, Anhong Wang, Yao Zhao, Jeng-Shyang Pan, Ajith Abraham

This book examines distributed video coding (DVC) and multiple description coding (MDC), two novel techniques designed to address the problems of conventional image and video compression coding. Covering all fundamental concepts and core technologies, the chapters can also be read as independent and self-sufficient, describing each methodology in sufficient detail to enable readers to repeat the corresponding experiments easily. Topics and features: provides a broad overview of DVC and MDC, from the basic principles to the latest research; covers sub-sampling based MDC, quantization based MDC, transform based MDC, and FEC based MDC; discusses Slepian-Wolf coding based on Turbo and LDPC respectively, and comparing relative performance; includes original algorithms of MDC and DVC; presents the basic frameworks and experimental results, to help readers improve the efficiency of MDC and DVC; introduces the classical DVC system for mobile communications, providing the developmental environment in detail.

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