



Optimal Combining and Detection: Statistical Signal Processing for Communications

By Jinho Choi

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With signal combining and detection methods now representing a key application of signal processing in communication systems, this book provides a range of key techniques for receiver design when multiple received signals are available. Various optimal and suboptimal signal combining and detection techniques are explained in the context of multiple-input multiple-output (MIMO) systems, including successive interference cancellation (SIC) based detection and lattice reduction (LR) aided detection. The techniques are then analyzed using performance analysis tools. The fundamentals of statistical signal processing are also covered, with two chapters dedicated to important background material. With a carefully balanced blend of theoretical elements and applications, this book is ideal for both graduate students and practising engineers in wireless communications.

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Editorial Review

Review

'Optimal Combining and Detection: Statistical Signal Processing for Communications covers fundamentals of signal detection and estimation and recent advances of multiple input multiple output (MIMO) detection. MIMO detection has become indispensable in modern wireless communication systems. I find the book very interesting and informative to wireless researchers and system engineers in both academia and industry. I believe that the book is also a very good text book for graduate students who are studying the advanced wireless communications technology.' Fumiyuki Adachi, Tohoku University, Japan

Users Review

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