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...

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## **Near-Capacity Variable- Length Coding**

This chapter investigates the design of efficient Variable-Length Code (VLC) source codes and their soft decoding methods. After reviewing their construction methods it proposed a novel algorithm for the design of efficient Reversible Variable-Length Code (RVLC) and Variable-Length Error-Correcting (VLEC) Codes.

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irregular unity rate coding  
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the design of two serially  
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codecs, each constituted by  
a ...

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...  
Near-capacity irregular  
variable length coding and  
irregular unity rate coding  
. ... facilitating operation  
at SNR values that are  
closer to the channel's  
capacity bound. This is  
demonstrated for a serial  
concatenation of iteratively  
decoded Irregular Variable  
Length Coding (IrVLC) and

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## **Near-capacity irregular variable length coding and**

...

Abstract. In this paper we propose a novel Irregular Variable Length Coding (IrVLC) scheme for near-capacity joint source and channel coding. We employ a number of component Variable Length Coding (VLC) codebooks having different coding rates for encoding particular fractions of the input source symbol stream.

## **IRREGULAR VARIABLE LENGTH CODING FOR NEAR-CAPACITY**

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## **JOINT ...**

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