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Convolutional Codes: For an  $(n,k)$  block code, at each time, the output of the encoder is an  $n$ -tuple which only depends on the current  $k$ -tuple input. For an  $(n,k)$  convolutional code at each time, the  $n$ -tuple output depends not only on the current  $k$ -tuple input but also on the previous  $m$  input blocks. An  $(2,1)$  convolutional code, Rate  $R = k/n = 1/2$ .

### **Error-Correcting Codes -**

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### **Error Control Coding - GBV**

Previous article in issue: Dictionary of computers, data processing, and telecommunications, Jerry M. Rosenberg, Wiley, New York, 1984. No. of pages: 614.

### **Error control coding—fundamentals and applications, by Shu ...**

- The more bits used for coding and not data, the more errors can be detected and corrected.
- At a constant bit rate, noisier channel means less real data sent

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**Error Control Coding: Fundamentals and Applications**

All error-detection and correction schemes add some redundancy (i.e., some extra data) to a message, which receivers can use to check consistency of the delivered message, and to recover data that has been determined to be corrupted. Error-detection and correction schemes can be either systematic or non-systematic.

**Error detection and correction - Wikipedia**

Scheduling to avoid packet collisions is a long-standing challenge in networking, and has become even trickier in wireless networks with multiple senders and multiple receivers.

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**Error Control Coding / Edition 2 by Shu Lin ...**

Jong-Ki Han , Jae-Gon Kim, Design of Asymmetric VQ Codebooks Incorporating Channel Coding, IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, v.E91-A n.8, p.2195-2204, August 2008

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