

# **On the Performance of Parallel Concatenated Joint Source-Channel Coding with Variable-Length Codes**

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## **ABSTRACT**

A novel approach for robust source transmission is presented where variable-length code (VLC) source and convolutional channel encoding are concatenated in parallel. Simulation results show that the proposed scheme leads to a strong increase in the signal-to-noise ratio at the decoder output compared to a serial concatenation of VLCs and channel codes.