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Research Letters in Communications

About this Journal Submit a Manuscript Table of Content Research Letters in Communications Volume 2008 (2008), Article ID 287320, 4 pages doi:10.1155/2008/287320 E Abstract Journal Menu Full-Text PDF Abstracting and Indexing Research Letter Full-Text HTML Aims and Scope Combining Coded Signals with Arbitrary Article Processing Charges Linked References Modulations in Orthogonal Relay Channels Articles in Press ? How to Cite this Article Author Guidelines Brice Djeumou,¹ Samson Lasaulce,¹ and Antoine O. Berthet² Bibliographic Information ¹Laboratoire des Signaux et Systèmes, CNRS, Supélec, Universitaire Paris Sud, Contact Information 91191 Gif-sur-Yvette, France Conference Sponsorships ²Départment Télécoms, Supélec, 91191 Gif-sur-Yvette, France Editorial Board Received 21 March 2008; Accepted 16 July 2008 Editorial Workflow Reviewers Acknowledgment Academic Editor: Huseyin Arslan Subscription Information Abstract Call for Proposals for We consider a relay channel for which the following assumptions are made. (1) The source-destination and relay Special Issues destination channels are orthogonal (frequency division relay channel). (2) The relay implements the decode-and forward protocol. (3) The source and relay implement the same channel encoder, namely, a convolutional encoder. (4) They can use arbitrary and possibly different modulations. In this framework, we derive the best combiner in the sense of the maximum likelihood (ML) at the destination and the branch metrics of the trellis

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cooperative-MRC (C-MRC), and the minimum mean-square error (MMSE) combiner.

associated with its channel decoder for the ML combiner and also for the maximum ratio combiner (MRC),