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Communication to within a fidelity criterion in unknown networks

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Abstract:

We consider the question of communication of independent sources between various users to within various distortion levels over a network. The network might be unknown in the sense that its exact operation as a conditional distribution might not be known. We prove that assuming random-coding is permitted, separation architectures are optimal.

Short Bios:

Mukul Agarwal is a PhD student in the Laboratory for Information & Decision Systems in the Department of Electrical Engineering at Massachusetts Institute of Technology.