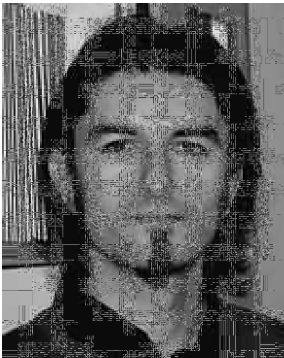


METHODS FOR RELIABLE AND EFFICIENT MULTIMEDIA DELIVERY OVER LTE/LTE-A

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We provide an overview of packet-loss resilience mechanisms based on fountain coding and network coding that target reliable and efficient multimedia delivery over LTE/LTE-A. Firstly, we review the application-layer solutions based on the fountain codes that are standardized or under consideration for standardization within 3GPP. Further, we consider an alternative for these upper-layer solutions where the proposed solution is based on the integration of network coding within the LTE protocol stack responsible for data delivery across LTE Radio Access Network. Finally, we discuss future evolution of video-delivery services over upcoming heterogeneous LTE/LTE-A network infrastructure.

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