Abstract

This paper focuses on impelling the FEC towards TCP transmission through generative frameworks based on existing error correction codes. It categorizes existing error correction algorithms on various bases and uses them as an outline for a generative program that monitors the present network parameters and generates a correction code accordingly. Required modifications in TCP packets are depicted and discussed with the challenges involved. Also need for smarter nodes has been emphasized based on discussed topics, considering the increasing load on servers.
- RFC5053 Raptor Forward Error Correction Scheme for Object Deliver.
- Generative Programming: Methods, Tools, and Applications by Krzysztof Czarnecki and Ulrich Eisenecker ISBN 0201309777
- Hadamard Matrices and Their Applications, K. J. Horadam ISBN 069111921
- Convulational Codes by Philippe Piret

**Index Terms**

Computer Science

Communication Systems

**Keywords**

FEC (Forward Error Correction)  ECC (Error Correcting Code)  Subtype Selection

Bit

Selection Bit

Error Correction Bits Array