



US 20240214108A1

(19) **United States**

(12) **Patent Application Publication**
ZHU et al.

(10) **Pub. No.: US 2024/0214108 A1**

(43) **Pub. Date:**
Jun. 27, 2024

(54) **DATA TRANSMISSION METHOD, DATA RECEIVING METHOD, AND COMMUNICATION APPARATUS**

(71) Applicant: **HUAWEI TECHNOLOGIES CO., LTD.**, Shenzhen (CN)

(72) Inventors: **Huiying ZHU**, Shanghai (CN);
Pengpeng DONG, Shanghai (CN);
Zhiyuan TAN, Shanghai (CN)

(73) Assignee: **HUAWEI TECHNOLOGIES CO., LTD.**, Shenzhen, GD (CN)

(21) Appl. No.: **18/591,308**

(22) Filed: **Feb. 29, 2024**

Publication Classification

(51) **Int. Cl.**
H04L 1/00 (2006.01)

(52) **U.S. Cl.**
CPC **H04L 1/0007** (2013.01); **H04L 1/0033** (2013.01)

(57) **ABSTRACT**

Related U.S. Application Data

(63) Continuation of application No. PCT/CN2022/115455, filed on Aug. 29, 2022.

Foreign Application Priority Data

Aug. 30, 2021 (CN) 202111018156.9

A data transmission method, a data receiving method, and a communication apparatus, which may be applied to an extended reality (XR) service or another low-latency service. The method includes: obtaining K to-be-coded data packets with a same length; performing shift exclusive OR coding based on a coding coefficient and the K to-be-coded data packets, to obtain a check packet; and sending the check packet, where a packet header of the check packet does not include indication information of the coding coefficient, the coding coefficient of the check packet is related to a difference between a data length of the check packet and the length of the to-be-coded data packet, and the to-be-coded data packet includes an original packet or a system packet corresponding to an original packet.

Original packet

Data

System packet

Packet header	Original packet
---------------	-----------------

Check packet

Packet header	Data part of the check packet
---------------	-------------------------------

Check packet b

Packet header	Data part of the check packet
---------------	-------------------------------