

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311059388 A

(19) INDIA

(22) Date of filing of Application :04/09/2023

(43) Publication Date : 06/10/2023

(54) Title of the invention : SYSTEM AND METHOD FOR DATA RELIABILITY IMPROVEMENT IN MOBILE COMMUNICATIONS

(51) International classification :G06F0011160000, H04L0001000000, G06F0011100000, G06Q0020400000, H04L0009320000

(86) International Application No :NA  
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :  
**1)Chitkara University**  
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

**2)Bluest Mettle Solutions Private Limited**  
**Name of Applicant : NA**  
**Address of Applicant : NA**

(72)Name of Inventor :  
**1)MISHRA, Rahul**  
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----

**2)SINGH, Dhiraj**  
 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India Pune -----

**3)MANTRI, Archana**  
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :  
 The present invention discloses a system (100) to improve data reliability in mobile communications. The system (100) comprises a transmitting server (106) and a receiving server (110) that communicate securely, enabled by a transmitting processor (102) and transmitting memory (104), which stores a set of instructions, when executed, enables the transmitting processor (102) to segregate data into a plurality of data packets, introduce redundant data to create duplicate copies, and transmitting the redundant data introduced data packets over a network (108) to the receiving server (110). On the receiving end, a receiving processor (112) and receiving memory (114) work collectively to decode the received redundant data-introduced data packets, correcting errors in the process. Subsequently, the decoded packets are reconstructed into the original data by eliminating the redundant information and appropriately arranging the packets. The system (100) offers a robust solution ensuring accurate and seamless transmission, reception, and restoration of data

No. of Pages : 26 No. of Claims : 10