Department of Mathematical Sciences

Report on research collaboration

between

Dr. Pankaj Kumar Das, Department of Mathematical Sciences, Tezpur University

and

Mr. Subodh Kumar, Department of Mathematics, Shyam Lal College, University of Delhi

Title of collaboration:

Bounds on linear codes capable of detecting, locating and correcting of repeated burst errors prevailing in multiple sub-blocks

Summary of collaboration:

A collaborative research work was undertaken by Dr. Pankaj Kumar Das and Mr. Subodh Kumar with the aim to study linear codes that can detect, locate and correct all repeated burst errors of length b or less which occur in multiple sub-blocks. Lower and upper bounds on the number of check digits for the existence of these codes are also derived along with examples.

Duration of collaboration:

The collaboration started in the month **January, 2020** and culminated in the form of a published research paper in the month of **November, 2020**.

Details of collaboration:

Details of collaboration could be found in the article-

Bounds on linear codes capable of detecting, locating and correcting of repeated burst errors prevailing in multiple sub-blocks, **Proyecciones**, 39 (2020), no. 6, 1577-1596, DOI: 10.22199/issn.0717-6279-2020-06-0094.

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