

DATA PROCESSING METHODS, APPARATUSES, AND COMPUTER DEVICES FOR PRIVACY PROTECTION

ABSTRACT

Embodiments of this specification disclose data processing methods, apparatuses, and computer devices for privacy protection. The method includes the following: private data is encoded to a coefficient of a first polynomial function, and a plurality of function values of the first polynomial function are obtained as a plurality of fragments obtained after the private data is split, where the fragments of the private data are used for computation by using a secret sharing algorithm to obtain fragments of target data. According to the technical solutions in the embodiments of this specification, the private data is split by using the first polynomial function. In addition, fragments of a plurality of pieces of private data can be further computed locally to obtain the fragments of the target data, and there is no need for a third party, thereby improving computing efficiency of the secret sharing algorithm. Moreover, the target data is further recovered by using a second polynomial function.

Figure 5