

ABSTRACT

IMAGE TAMPERING DETECTION

This specification discloses an image tampering detection method and apparatus, a storage medium, and an electronic device. The method includes: an electronic device determines a first model gradient matrix corresponding to a local image tampering detection model, and performs partial gradient differential privacy calculation processing based on the first model gradient matrix, to obtain a second model gradient matrix. The electronic device uploads the second model gradient matrix to a service platform, where the second model gradient matrix is used by the service platform to determine a target model parameter based on each second model gradient matrix. The electronic device receives the target model parameter sent by the service platform. The electronic device updates the local image tampering detection model based on the target model parameter, to obtain a target image tampering detection model. The electronic device performs image detection processing on a target privacy image based on the target image tampering detection model, to obtain a target heat detection map corresponding to the target privacy image, and performs tampering recognition processing on the target heat detection map, to obtain a tampering recognition result corresponding to the target privacy image.

Fig.2