

A SYSTEM, METHOD AND COMPUTER READABLE MEDIUM BASED ON GENERATIVE ADVERSARIAL NETWORK FOR FRAUD DETECTION AND DATA AUGMENTATION IN ELECTRONIC KNOW YOUR CUSTOMER SYSTEM

ABSTRACT

A system, method and computer readable medium based on Generative Adversarial Network (GAN) for fraud detection and data augmentation in an electronic Know Your Customer (eKYC) system is disclosed. In present invention, a generator model and a discriminator model are first sufficiently trained using GAN. Random noise data is fed to the generator model to generate or synthesize fake images. Initial ground truth data and the synthesized fake images are fed to a discriminator model as a training data. The discriminator model provides a classification training result of input data. The losses in the generator model and the discriminator model are determined and the determined losses are updated using a backpropagation process. The trained generator model is used for data augmentation and training of a data extraction system and the trained discriminator model is used for enhancing the classification of the security system for fraud detection in the eKYC system.

FIG. 1 accompanies the abstract.