TEST DATA GENERATION METHOD AND APPARATUS, MEDIUM, AND COMPUTER SYSTEM

ABSTRACT

This specification provides a test data generation method. A first data feature of first test data that triggers a target program abnormality is extracted. A test case corresponding to the first test data is run, and a first report feature of an obtained first running report is extracted. A value of a field in the first test data is changed, to obtain second test data, and a second data feature of the second test data is extracted. A third data feature is determined based on a similarity between the first data feature and the second data feature. A test case corresponding to the third data feature is run, and a second report feature of an obtained second running report is extracted. Feature variation is performed by using the second report feature as an initial value and using the first report feature as a target, and an obtained variant report feature is input into a first neural network, to obtain a fourth data feature. Test data corresponding to the third data feature and test data corresponding to the fourth data feature are used to test a target program. According to this method, a large amount of high-quality test data for the target program is automatically generated.

[Figure 2]