

ABSTRACT OF THE DISCLOSURE

The disclosure relates to a method, an apparatus, a system, and a computer program for identifying and responding to quantum vulnerability with respect to an application by using a dynamic analysis agent and, specifically, as a method of identifying quantum vulnerability with respect to an application by using a computing apparatus, the disclosure may include an operation of identifying one or more cryptographic associated functions performed in an application based on analysis of a code, executed while the application is in an operating state, by using a dynamic analysis agent corresponding to the application, an operation of calculating, based on the one or more cryptographic associated functions, a cryptography algorithm list used in the application, and an operation of identifying, based on the cryptography algorithm list, quantum vulnerability with respect to the application.

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Figure 2 accompanies.