

EQUIPMENT ANOMALY DETECTION METHOD, COMPUTER READABLE STORAGE
MEDIUM, CHIP, AND DEVICE

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ABSTRACT

10 A detection device is provided in the disclosure. The device uses unsupervised or self-supervised
neural networks to learn nominal conditions of a target system, such as a device or a machine.
The trained neural networks can reproduce sensory signals of the target system as a
neural-network-reconstructed version of the sensory signals in the nominal conditions of a target
system. The equipment anomaly detection device may analyze and predict operation conditions
15 of the target system based on the neural-network-reconstructed version exceeding a certain level.
When signal difference between the sensory signals and the neural-network-reconstructed
version exceeds a certain level, the equipment anomaly detection device may issue an alert signal
to reflect abnormal operation conditions of the target system.

The most illustrative drawing : Figure 1