

## **Abstract**

### **Positioning Method, Device and System for Transmitting Device, and Storage Medium and Electronic Device**

Provided are a positioning method, device and system for a transmitting device, and a storage medium and an electronic device. The method includes that: control information is determined by a receiving device, wherein the control information includes temporal information and control direction information, and the control direction information is used for instructing a meta-surface control unit to adjust a reflection coefficient of a meta-surface to a target reflection coefficient corresponding to a preset direction; a pilot signal is transmitted to the meta-surface by a transmitting device; the control information is sent to the meta-surface control unit by the receiving device, wherein the control information is used for instructing the meta-surface control unit to adjust the reflection coefficient of the meta-surface to the target reflection coefficient corresponding to the preset direction within a target time period; and a signal measurement result corresponding to the preset direction is determined, and the transmitting device is positioned according to the preset direction and the signal measurement result.

Figure 3