#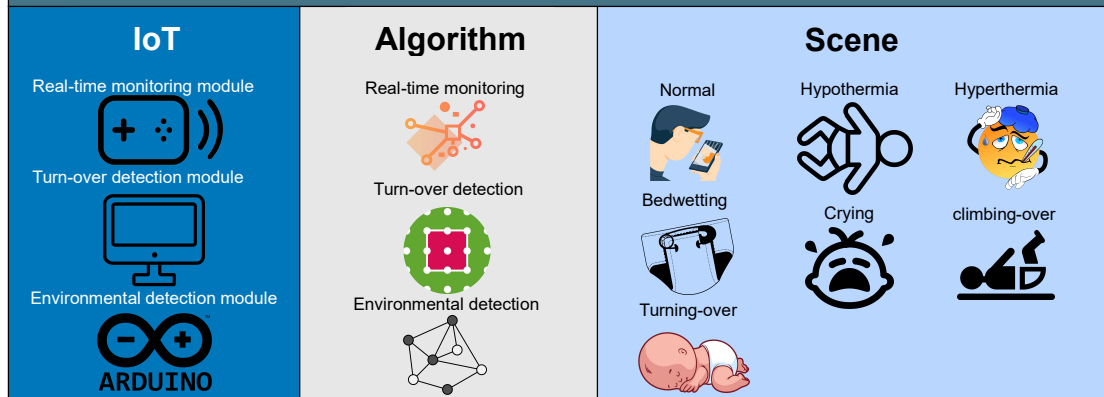 Design of a hazard prediction system with intelligent multimodal fusion based on AIoT technology: Taking a crib as an example

IoT

Real-time monitoring module

Turn-over detection module

Environmental detection module

ARDUINO

Algorithm

Real-time monitoring

Turn-over detection

Environmental detection

Scene

Normal

Hypothermia

Hyperthermia

Bedwetting

Crying

climbing-over

Turning-over

Conclusion: The article presents an AIoT-based intelligent hazard prediction system that utilizes an IoT hardware device and AI algorithm to detect real-time status and predict potential dangers. The system demonstrates transferability and can be applied to various scenarios, including baby cribs, infants and elderly patient care in the hospital, and abandoned baby care stations.