ABSTRACT

Urgent screening in high-throughput, secure environments such as emergency rooms, or security, typically involves multiple devices. Devices that are used for screening are diverse, and typically sourced from multiple vendors. Currently, devices are typically stand-alone. Further, large devices, are costly, having high capital expenses with long commercial lifetimes, sometimes approaching a decade or more. The result of these features leads to duplication of computational resources, obsolescent computational infrastructure, and lack of interconnection between elements. Aspects of this invention include a device, system, and methods to provide vendor-agnostic interconnection between the multiple elements of a defined environment. The disclosed approach untethers AI algorithms from data generation system and increases flexibility in deployment of newer technologies and algorithms. Example systems can be updated or replaced with new hardware, as computational capabilities develop on short or emergent quality improvement cycles, and can adapt nimbly to changes in threats, regulatory requirements or market developments.

[Fig. 3 & Fig. 4]