

STA 2019 Annual Meeting, Scottsdale, Arizona

**Workshop on Apps, Algorithms, and Platforms for  
Automated and Autonomous Medical Systems**

Concurrent Session 8

Friday January 11, 3:30-5:30

Location: Monument Room

**Background:**

Next-generation integrated clinical platforms could provide closed-loop management of oxygenation, blood pressure, ventilation, fluid management, sedation, analgesia, and anesthesia. These platforms will be especially useful to provide care in resource-limited and austere environments. By using interoperable data interfaces for sensors, actuators, and apps, these platforms will enable customization and upgrading of components to meet varying clinical and operational requirements.

These capabilities are especially needed for the care of casualties in the prehospital environment. Over the last five years, military medicine has developed the concept of Prolonged Field Care (PFC) in which transport of an injured person to definitive care may be delayed for 4-72 hours. Automated and autonomous medical systems could help in the care of these casualties during the period of PFC as well as during evacuation/transport.

**Workshop Goals:**

This STA workshop is intended to identify members for a community of interest of subject matter experts. We would like to identify potentially applicable research, products, algorithms, platforms, sensors, and actuators.