Non-contact or contactless or stand-off monitoring has evolved as a preferred paradigm in many areas of sensing such as search and rescue, suicide detection and prevention, wellness monitoring of elderly. Contactless monitoring of physiological signals for health monitoring is gaining popularity as a single sensor can be used for monitoring several subjects simultaneously. For example, radars are being used for detecting vital signs such as the breathing rate and heart rate in hospital environment and in home-based care for monitoring the health of senior citizens. Also contactless monitoring can be used for detection of life under rubbles, detection of movements and postures of people, analysis of gait, conditions like sleep apnea or sudden infant death. There are several contactless monitoring technologies from intrusive ones like cameras to non-intrusive ones like radar that do not violate the privacy of monitored subjects. This special session solicits papers that provide health monitoring solutions using all forms of contactless sensing methodologies. This fledgling area has several open research problems that when solved will revolutionize monitoring of physiological signals.

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