

Remote Sensing for Humanitarian Assistance & Disaster Relief

With the increasing frequency and cost associated with disasters such as tornadoes, flooding, and hurricanes, there is a critical need to develop technology to support incident and disaster response. Remote sensing capabilities enabled by high performance and embedded computing can provide the public and responders information specialized to their needs, such as detecting damaged infrastructure and identifying dangerous conditions. However public safety technology development is a large combinatorial challenge, as incidents and disasters can widely vary. This special HPEC session will span from defining computational requirements unique to public safety to rapid processing of terabytes of data and to designing algorithmic to produce actionable intelligence to influence a response and recovery.