Global Position System (GPS), the modern revolution of localization technology, goes from outdoor applications into the WiFi based indoor applications and even progressed into in-body medical applications. Localization technologies have their own specific challenges depending on the application and environment, which are still left for scientists and engineers to overcome. The design of smart sensor networks serves as the infrastructure of precise localization technologies and the smart sensor networks finally leads us to a smart world. The relationships among localization and the smart world are very fundamental and intertwined. Location intelligence enables the emergence of smart world applications such as smart robotics, smart health monitoring, smart vehicles, smart transportations, smart delivery, smart homes, and even smart cities.

We invite authors to submit original research articles, visionary papers, and review articles that will contribute to addressing localization challenges and enhancing location intelligence, which will promote the smart world experience to the maximum.

Potential topics include, but are not limited to:

- Smart sensor design for localization systems
- Localization system implementations (passive/active RFID, UWB, inertial data fusion, ultrasound, and finger printing)
- Frame work of hybrid/cooperative/collaborative/distributed localization
- Localization algorithms and fundamental performance limits and bounds
- SLAM and smart map construction for localization
- Calibration of positioning sensors in multiple-observer situations
- Test-beds, measurement campaign, channel model, and experimentation
- Location based service, security, and privacy aspects of localization
- Context-aware privacy preserving and localization anonymization
- Location based smart world applications (smart robotics, health monitoring, vehicles, transportation, delivery, homes, cities, etc.)
- Positioning abstractions for simplified application development
- Positioning datasets of public interest and/or with public accessibility

The submitted manuscripts for this special issue will be peer-reviewed before publication.