<17WCEE : Category List>

1. Engineering Seismology
a. Active fault and paleo seismology
b. Source characterization
c. Hazard assessment
d. Ground motion studies
e. Seismic network and monitoring
f. Path and site effect
g. Site and damage investigation
h. General seismology and geology
i. Others

2. Seismic Performance of Structures
a. Design ground motion
b. Seismic design and design code
c. Buildings
d. Bridges and infrastructures
e. Lifeline systems
f. Energy facilities/Nuclear Power Plant
g. Seismic isolation and vibration control
h. Equipment and piping system
i. Experimental works and physical modeling
j. Case study of performance based seismic design
k. Others

3. Assessment and retrofitting of structures
a. Seismic design and design code
b. Buildings
c. Bridges and special structures
d. Heritage structures
e. Non-structural components
f. Experimental works and physical modeling
g. Case study of seismic retrofit
h. Others

4. Geotechnical Earthquake Engineering
a. Slope failure
b. Ground failure, liquefaction and soil improvement
c. Soil-structure interaction
d. Shallow and deep foundation
e. Experimental works and physical modeling
f. Others

5. Tsunami Disaster
a. Source characterization
b. Hazard assessment
c. Wave propagation
d. Tsunami-induced damage
e. Early warning
f. Evacuation issues
g. Others

6. Preparedness and Emergency Management
a. Damage estimation
b. Rapid structural assessment
c. Immediate response
d. Short-term logistics
e. Human behavior
f. Management policy
g. Early warning
h. Others

7. Social and Economic Aspects
a. Impact and indirect consequences
b. Awareness and preparedness
c. Public policy
d. Recovery and resilience
e. Financial and insurance policies
f. Risk communication
g. Education and outreach
h. Ethical and legal issues
i. Case study of seismic performance assessment
j. Others

8. Seismic Loss and Risk Management
a. Exposure and vulnerability
b. Loss estimation
c. Risk assessment
d. Numerical modeling and application
e. Earthquake insurance
f. Fire following earthquake
g. Others

9. Innovative Technology
a. ICT and IoT
b. Remote sensing and UAV
c. AI and big data analytics
d. New computational science
e. Others

10. Lessons Learnt from Earthquakes
a. Recent earthquakes and Tsunami
b. History of earthquake engineering
c. Others

11. Others
a. Others