



THEMES

HPEM / NEM & Related Topics		UWB & Related Topics		TID & Related Topics		Critical Infrastructures & Related Topics	
1.	High-Power Microwaves	1.	Electromagnetic Theory	1.	Defining UXO/TID – Sites, Problems	1.	Infrastructure Characterization & modeling
2.	EMP Phenomenology Propagation, Source Region	2.	Scattering	2.	EM Characterization of Soils	2.	EM field effects on infrastructures
3.	Electromagnetic Environments	3.	Propagation	3.	Detection, Sensor Technologies	3.	Threats and countermeasures
4.	Lightning – Characterization & Simulation	4.	UWB Polarimetry	4.	TID, Feature Signatures, Discrimination	4.	Societal effects
5.	High-Intensity Radiated Fields	5.	UWB Radar Systems	5.	Signal Processing		
6.	Biological Effects and Medical Application	6.	Underground & Subsurface	6.	Sensor Fusion		
7.	Environmental Effects of EM Fields	7.	UWB Antennas	7.	Time-Domain Signal Processing		
8.	Intentional EMI	8.	Applications of UWB Antennas	8.	EOD Tools, Robotics		
9.	Coupling to Structures, Cables	9.	Antennas for UWB Communication	9.	Containment		
10.	Vulnerability of Systems & Components	10.	Wavelets & Multi-Resolution Algorithms	10.	Modeling & Simulation		
11.	Hardening & Protection	11.	Time- Domain Signal Processing	11.	Clutter & Discrimination		
12.	Hardness Assurance & Maintenance	12.	Target Detection & Discrimination	12.	Clutter Rejection Algorithms		
13.	CAD Analysis & Synthesis	13.	Time-Domain Computation Techniques	13.	Landmines – Detection & Sensor Technologies		
14.	Simulators & Simulation Techniques	14.	Short-Pulse Measurement Techniques	14.	Landmines - ID, Signatures, & Discrimination		
15.	Pulsed Power	15.	Pulsed Power				
16.	High-Power RF Source Technology	16.	Susceptibility				
17.	Measurements Techniques	17.	UWB Communication				
18.	Electromagnetic Topology	18.	Biological Effects				
19.	Electromagnetic Compatibility	19.	UWB- Interference with Complex Systems (Aircraft, Railway, etc.)				
20.	Antennas	20.	New Canonical Problems, Benchmark Solutions				
21.	Signal Processing	21.	Special Sessions				
22.	Electromagnetic Noise						
23.	Geomagnetic Storms						
24.	Materials Characterization						
25.	Numerical & Statistical Methods						
26.	EM Standards & Specifications						
27.	Nonlinear Dynamics and Chaos						
28.	Susceptibility						
29.	Interference with Railway Systems						