



RADIO SCIENCE FOR HUMANITY

Advanced Radars for societal needs *Techniques avancées Radar*

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Multi-Parameter Radar Systems and Wave Propagation continue to play a central role in shaping the evolution of the current state-of-the art in Radar Remote Sensing and its application to disaster management. In the field of multi-parameter radars Methods we are witnessing advances in polarimetry, application of smart and reconfigurable Digital-Beam-forming Antennas, ever increasing Bandwidths, and the application of Waveform diversity. In terms of Systems, we are seeing the rapid development of compact radar systems that can be mounted on autonomous drones and UAVs. In view of Applications, the requirements of humanitarian surveillance and disaster management are posing new challenges on the detection of objects and features mingled in diverse clutter signals e.g. due to forests, debris or buildings. The sessions welcomes contributions in this interdisciplinary and transdisciplinary scenario of Multi-parameter Radar developments and disaster management.