Novel Electromagnetic Phenomena, facing Wireless Sensing Applications

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The global vision of wireless connectivity, where multiple items become members of a network or are subject to tracking and monitoring, raises new demands for electromagnetic hardware realizations. Introducing new approaches, including high-index materials, structuring, temporal modulation of material properties, and other concepts can contribute to this endeavor. The session's objective is to assess the new ideas versus practical applications on pathways of identifying future advantages.

The list of topics includes, but is not limited to:

- Metamaterials and Metasurfaces for Radar deception
- Passive Radar Beacons
- Time-varying scatterers for sensing applications
- Long-range RFID
- MRI Imaging