**Orphaned Contributions**

1. Single-channel radiometer
   1. Architectures and trade-offs with attention to power measurement
   2. Impairments
      1. Inter-stage impedance mismatch
      2. Amplification
         1. Distortion (nonlinear, group delay, etc.)
         2. Noise (additive, multiplicative, line, etc.)
      3. Heterodyne
         1. Image noise
         2. Intermodulation products
      4. Sampling
         1. Amplitude quantization (incidental correlation and other)
         2. Temporal quantization
         3. Linearity
         4. Artifacts (incidental correlation at subharmonics, and anti-aliasing filter effects)
2. Multi-spectral radiometer
   1. Architectures and trade-offs
   2. Impairments
      1. Channel-to-channel response mismatch
      2. Coupling (crosstalk) between channels
3. Correlation radiometer
   1. Architectures and trade-offs
   2. Impairments
      1. Channel-to-channel gain mismatch
      2. Channel-to-channel phase mismatch
      3. Coupling (crosstalk) between channels
4. Polarimetric radiometer
   1. Architectures and trade-offs
   2. Impairments
      1. Channel-to-channel gain mismatch
      2. Channel-to-channel phase mismatch
      3. Coupling (crosstalk) between channels
5. Calibration (determination and application of corrections for systematic impairments and residual uncertainty analysis after correction)
   1. Single-channel radiometer
   2. Multi-spectral radiometer
   3. Correlation radiometer
   4. Polarimetric radiometer
   5. Array of radiometers