

Working Group I: Remote Sensing

Potential Topics:

- Theory of data systems (cost-uncertainty trade-off)
- Spatial retrieval methodology
- Accelerating MCMC (QMC methods, MLMC, likelihood-informed subspaces, etc.)
- Uncertainty quantification for remote sensing retrievals
- (analytical and by simulation)
- Statistical compression for large data sets (e.g., Hammerling)
- Fusion of in-situ and satellite remote sensing data
- Fast inference and prediction for large data sets: innovations for speed with controlled information loss (approximations, resampling, representation of data on manifolds or functional spaces, etc.)
- Other ideas welcomed!