



MUMS Program Opening Workshop
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SPEAKER TITLES/ABSTRACTS

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“Model Uncertainty in Data Fusion for Remote Sensing”

Data fusion is the process of combining data from different sources to enhance the utility of the combined product. In remote sensing, input data sources are typically massive, noisy, and have different spatial supports and sampling characteristics. We take an inferential approach to this data fusion problem: we seek to infer a true but not directly observed spatial (or spatio-temporal) field from heterogeneous inputs. We use a statistical model to make these inferences, but like all models it is at least somewhat uncertain. In this talk, we will discuss our experiences with the impacts of these uncertainties and some potential ways addressing them.