







Guided (Targeted) Sampling

- Prescription rules:
 - 1) Cover the entire range of data from each source
 - 2) Avoid field boundaries and other transition zones
 - 3) Spread samples over the entire field
- Current difficulties:
 - 1) Poor ability to simultaneously consider multiple data layers
 - 2) Uncertain number of needed guided samples
 - 3) Difficult validation and comparison of a sampling scheme with alternatives





































Summary

- An objective function accounts for representing the entire range of sensor data (Dopt), spreading around the field (Sopt) and local homogeneity (Hcr) Constrained categorical separation and Latin hypercube sampling were used to simultaneously address all established criteria ٠
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- Normalization by median for a large number of random sets appeared to be the most robust method from those considered to precondition estimates of each criterion prior to obtaining their geometrical mean (objective function) ٠
- As long as the formulation of established criteria remains unchanged, this method prevents the subjectivity in setting the weights for individual criteria
- Further optimization of the number of guided sampling locations and the selection process in general is needed

