

Simple Kriging Cross-validation Report

$$\hat{z}(x_0) = \sum_{i=1}^n \lambda_i z(x_i)$$

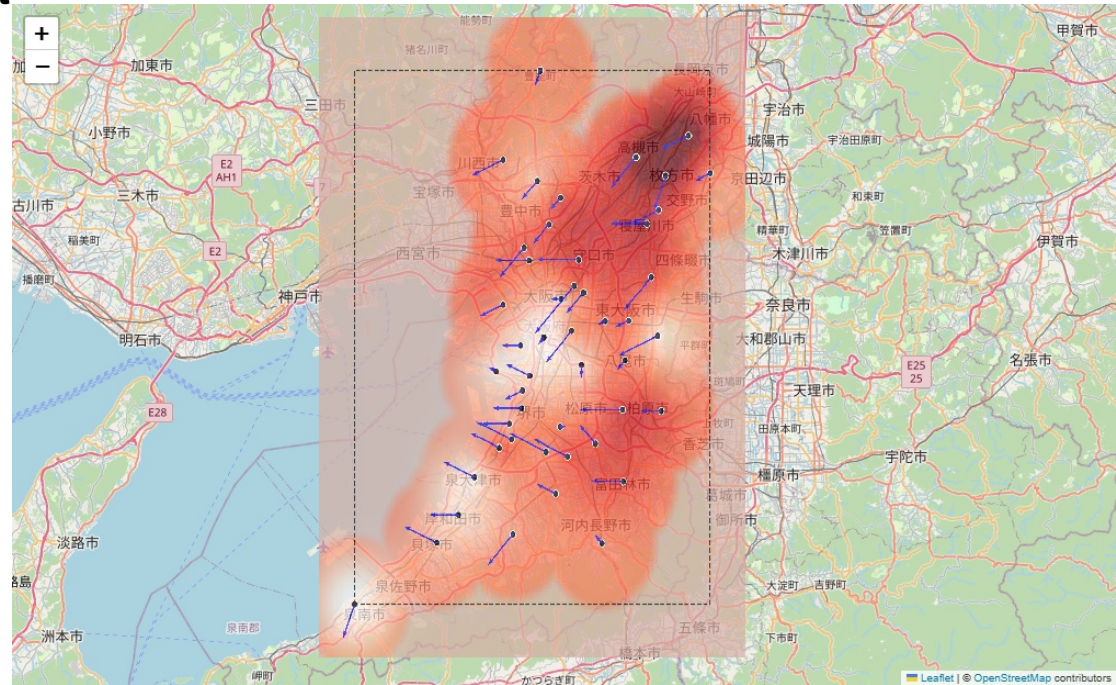
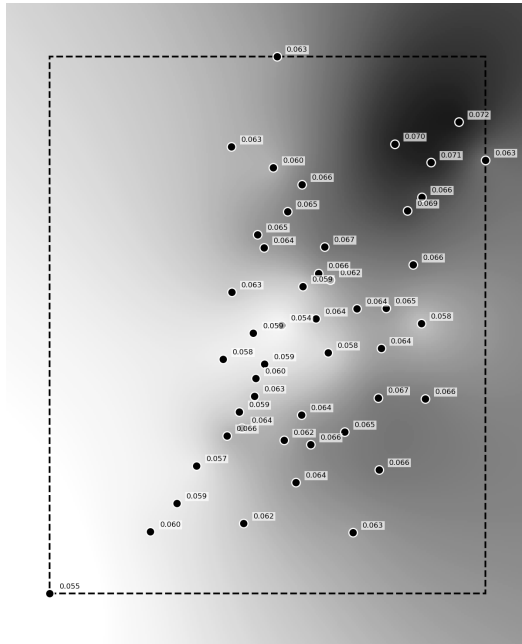
$\hat{z}(x_0)$: estimated value at location x_0

$z(x_i)$: known value at location x_i

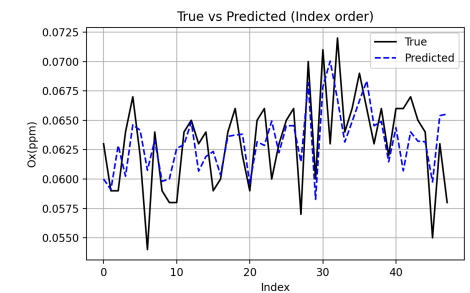
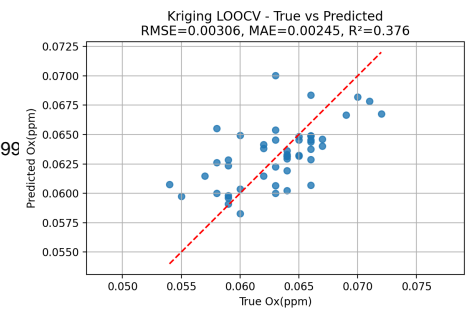
λ_i : Kriging weight for $z(x_i)$, based on spatial correlation

$\sum \lambda_i = 1$: weights sum to 1 (unbiasedness condition)

Weights depend on variogram model (e.g., exponential, spherical...)



Model	Transform	RMSE	MAE	R ²
linear	none	0.00306	0.00245	0.376
linear	log	0.00328	0.00263	0.287
linear	sqrt	0.00309	0.00247	0.367
gaussian	none	0.00312	0.00244	0.352
gaussian	log	inf	5944402165194599243993792065456032739111640811964807632199	
gaussian	sqrt	0.00386	0.00298	0.007
exponential	none	0.00322	0.00252	0.309
exponential	log	0.00328	0.00261	0.283
exponential	sqrt	0.00336	0.00264	0.250
spherical	none	0.00324	0.00253	0.301
spherical	log	0.00330	0.00264	0.278
spherical	sqrt	0.00335	0.00262	0.255



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