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Type: Oral presentation

## A graph-structured distance for heterogeneous datasets with meta variables

Tuesday 1 October 2024 15:30 (30 minutes)

This talk presents a novel distance function and modeling framework for mixed-variable domains, effectively handling heterogeneous data with continuous, integer, and categorical variables, including meta variables that shape problem structure. This approach is presented in a paper that enhanced generalization and optimization in large representation models in science without partitioning data. A follow-up paper will extend this work by unifying surrogate modeling in architecture optimization, introducing graph-structured domains and partially decreed variables, with applications in green aeronautics via Bayesian optimization.

### Contribution length

Short

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