

# Randomer Forests

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## Abstract

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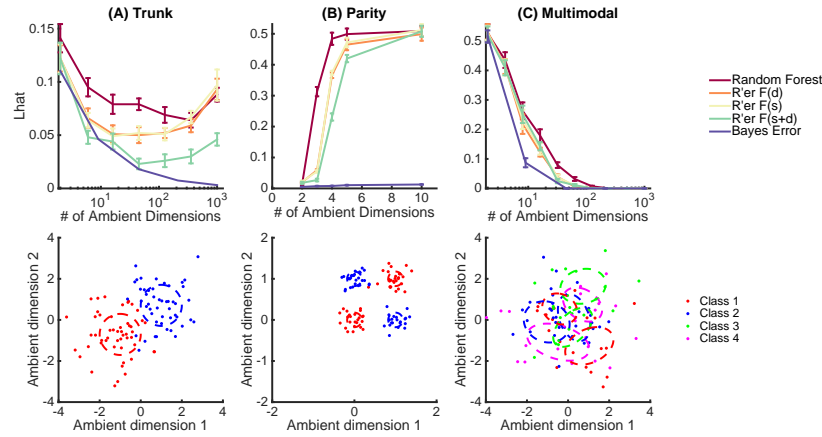


Figure 1: Classification performance of Random Forest and Randomer Forests on (A) Trunk's example (B) parity and (C) four-class bimodal Gaussians. Error bars represent SEM over ten trials.

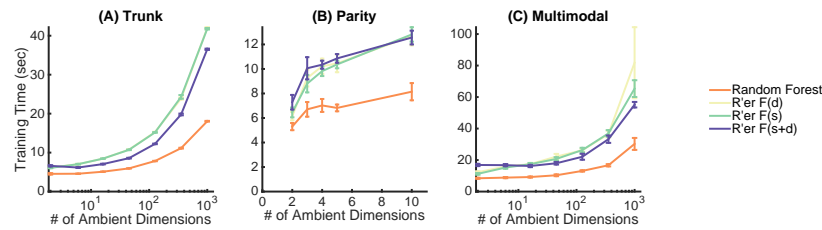


Figure 2: Training time for Random Forest and Randomer Forests on (A) Trunk's example (B) parity and (C) four-class bimodal Gaussians. Error bars represent SEM over ten trials.

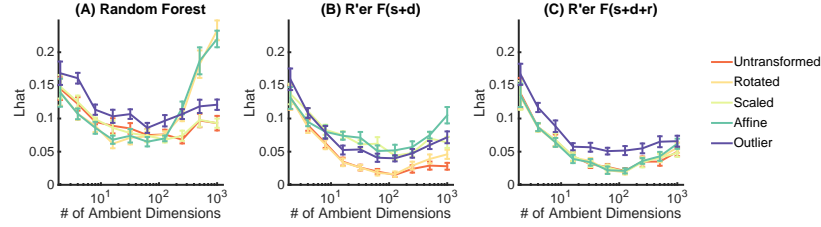


Figure 3: Classification performance of (A) Random Forest, (B) Randomer Forest (sparse+delta) and (C) Randomer Forest (sparse+delta+robust) on various transformations of Trunk's example. Error bars represent SEM over ten trials.

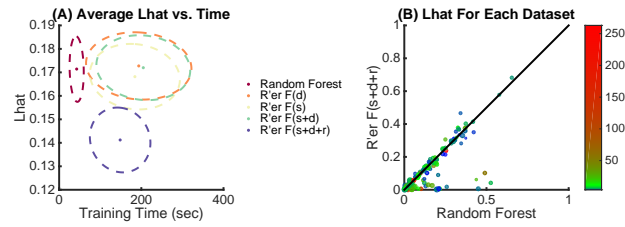


Figure 4: (A) Classification error and training time of Random Forest and Randomer Forests averaged over 121 real datasets. Dashed lines represent a 0.1 SD level curve. (B) Classification error of Randomer Forest (sparse+delta+robust) vs. that of Random Forest for each of the 121 datasets. The black line indicates equal classification error of the two algorithms. Color indicates dimensionality of the datasets and size of points indicates number of samples.