|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | pure breadth | sqrt | optimal | linear | power |
| depth | $$V\_{126}=12619, $$$$p\_{adj}=.009$$ | $$V\_{126}=19671,$$$$p\_{adj}=7.29×10^{-33}$$ | $$V\_{126}=19177,$$$$p\_{adj}=1.09×10^{-29}$$ | $$V\_{126}=19480,$$$$p\_{adj}=1.28×10^{-31}$$ | $$V\_{126}=19691,$$$$p\_{adj}=5.37×10^{-33}$$ |
| pure breadth |  | $$V\_{126}=12519, $$$$p\_{adj}=.014$$ | $$V\_{126}=16912,$$$$p\_{adj}=3.32×10^{-17}$$ | $$V\_{126}=19681,$$$$p\_{adj}=6.26×10^{-33}$$ | $$V\_{126}=19673,$$$$p\_{adj}=7.06×10^{-33}$$ |
| sqrt |  |  | $$V\_{126}=16429,$$$$p\_{adj}=5.55×10^{-15}$$ | $$V\_{126}=17505,$$$$p\_{adj}=3.80×10^{-20}$$ | $$V\_{126}=19560,$$$$p\_{adj}=3.88×10^{-32}$$ |
| optimal |  |  |  | $$V\_{126}=15310,$$$$p\_{adj}=2.04×10^{-10}$$ | $$V\_{126}=19295,$$$$p\_{adj}=1.96×10^{-30}$$ |
| linear |  |  |  |  | $$V\_{126}=16459,$$$$p\_{adj}=6.61×10^{-27}$$ |

***Table S7***. Summary of the pair-wise comparisons (Wilcoxon Matched Pairs Signed-Ranks test) of the individual AIC between all six models using Binomial distributed noise. P-values are adjusted with Bonferroni corrections and significative differences (*p* <.05) are highlighted in bold. Models are ordered from worst (depth) to best (power).