

Appendix

A. Detailed Configuration

Table 1. The range of hyper-parameters examined in our experiments and the final specification for the reported performance.

Notation	Hyper-parameter	Range Examined	Final Specification
$\text{GIN}_f, \text{GIN}_p$	#Separate GIN Layers	[1, 2, 3]	1
GIN_1	#Shared GIN Layers	[1, 2, 3]	2
D	Hidden Dimension	[32, 64, 128, 256, 512]	256
B	Batch Size	[8, 16, 32, 64]	32
η	Learning Rate	[1e-3, 1e-4, 1e-5]	1e-4
k	Weight Decay	[1e-4, 1e-5]	1e-5
r	Training Epoch	[100,300,500,700,900]	500
C	Brain State	[3,4,5,6,7,8]	7
τ	Temperature	[0.1, 0.5, 0.9]	0.5
α	Trade-off for \mathcal{L}_{GL}	[1e-1, 1e-2, 1e-3, 1e-4, 1e-5]	1e-2
β	Trade-off for \mathcal{L}_{AP}	[1e-1, 1e-2, 1e-3, 1e-4, 1e-5]	1e-3
λ	Trade-off for $\ A\ _F^2$	[1e-1, 1e-2, 1e-3, 1e-4, 1e-5]	1e-3

B. Sensitivity Analysis on Loss Trade-off

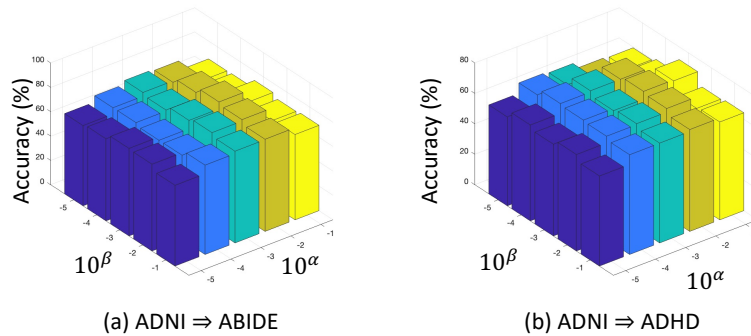


Fig. 1. Accuracy of our method on two cross-dataset tasks with different settings of α and β .