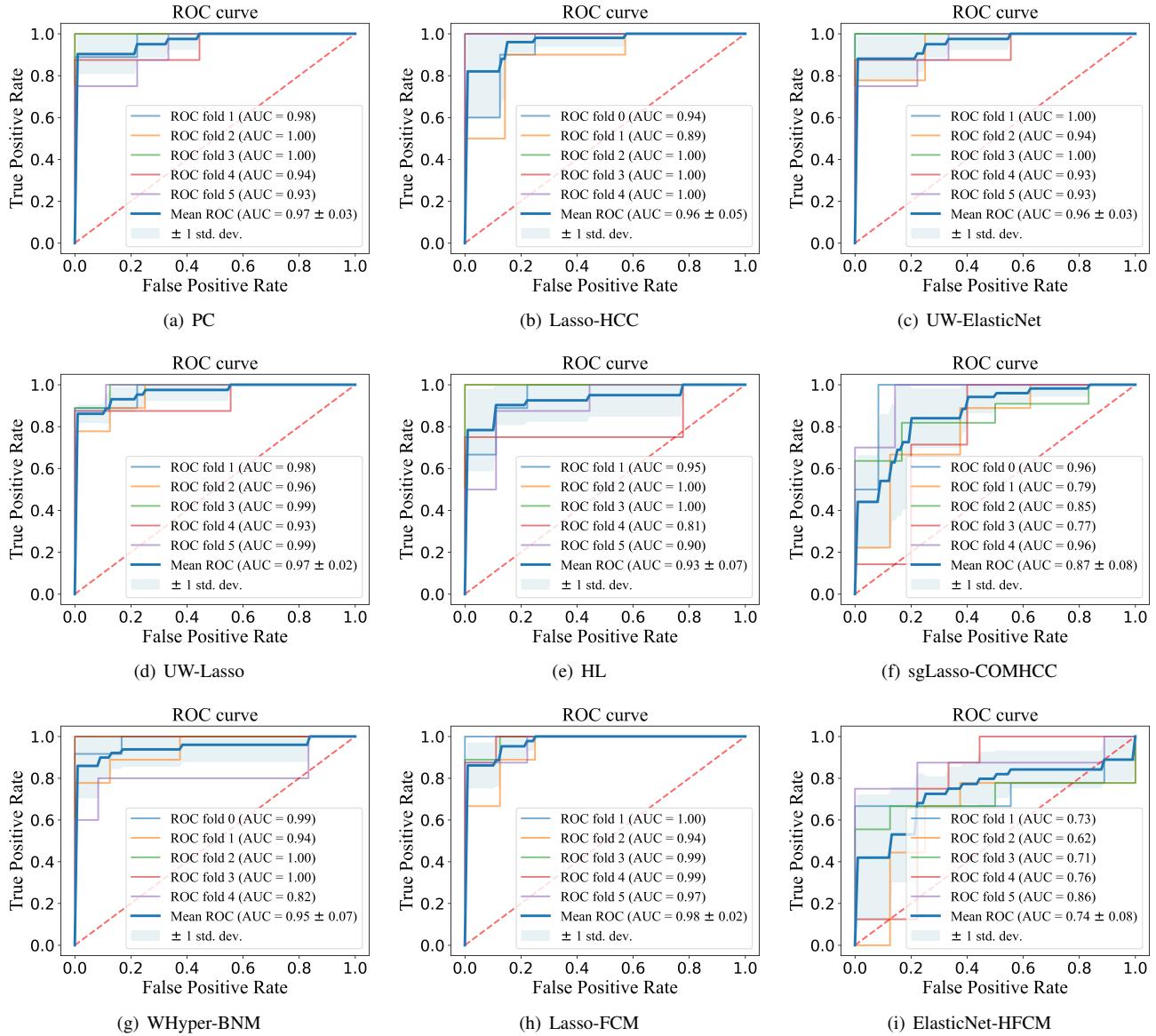


Hypergraph-Based Fuzzy Cognitive Maps for Functional Connectivity Analysis on fMRI Data

Yingzhi Teng^a, Kai Wu^{b*}, Jing Liu^a, Yifan Li^a

^a Guangzhou Institute of Technology, Xidian University, Guangzhou 510555, China

^b School of Artificial Intelligence, Xidian University, Xi'an 710071, China



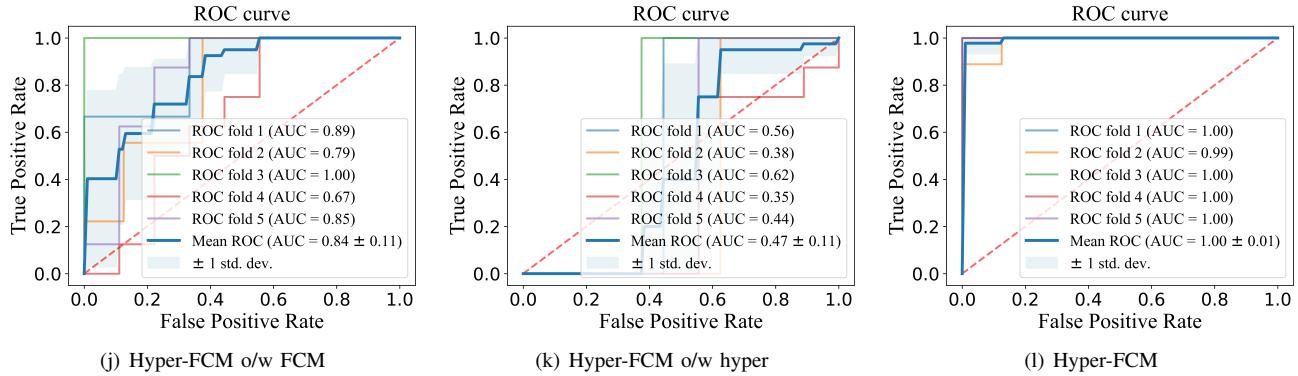
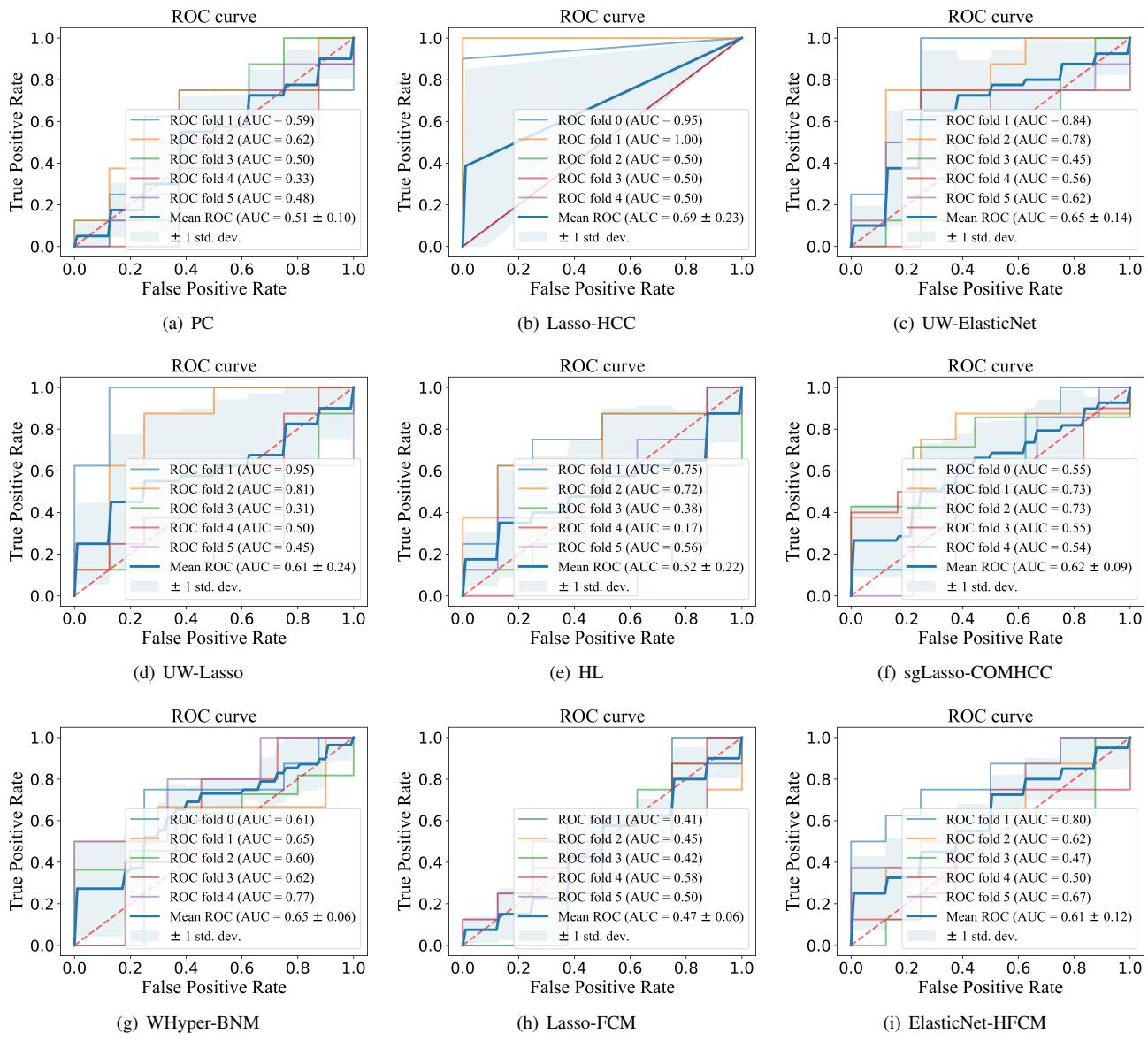


Fig. S1. The 5-fold crossover ROC curves of 12 methods on resting-state classified fMRI II data. (a) PC, (b) Lasso-HCC, (c) UW-ElasticNet, (d) UW-Lasso, (e) HL, (f) sgLasso-COMHCC, (g) WHyper-BNM, (h) Lasso-FCM, (i) ElasticNet-HFCM, (j) Hyper-FCM o/w FCM, (k) Hyper-FCM o/w hyper, and (l) Hyper-FCM.



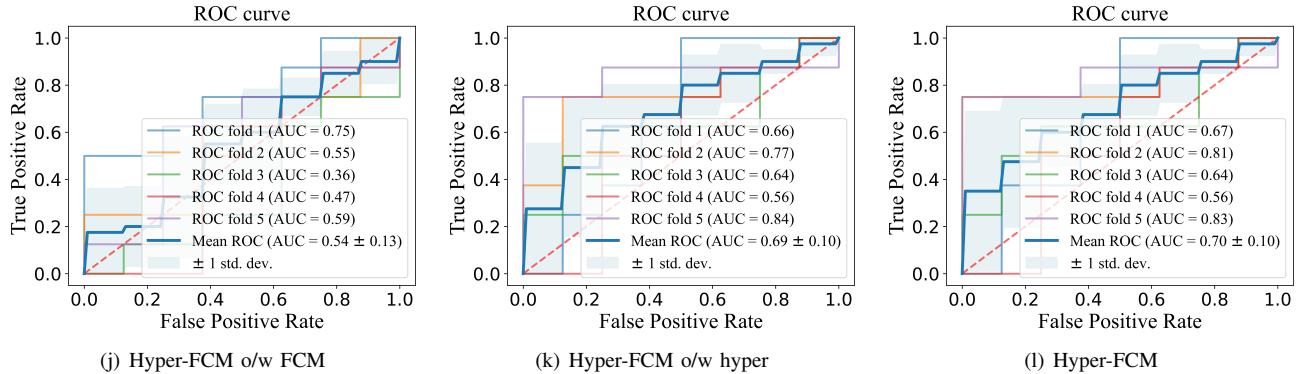
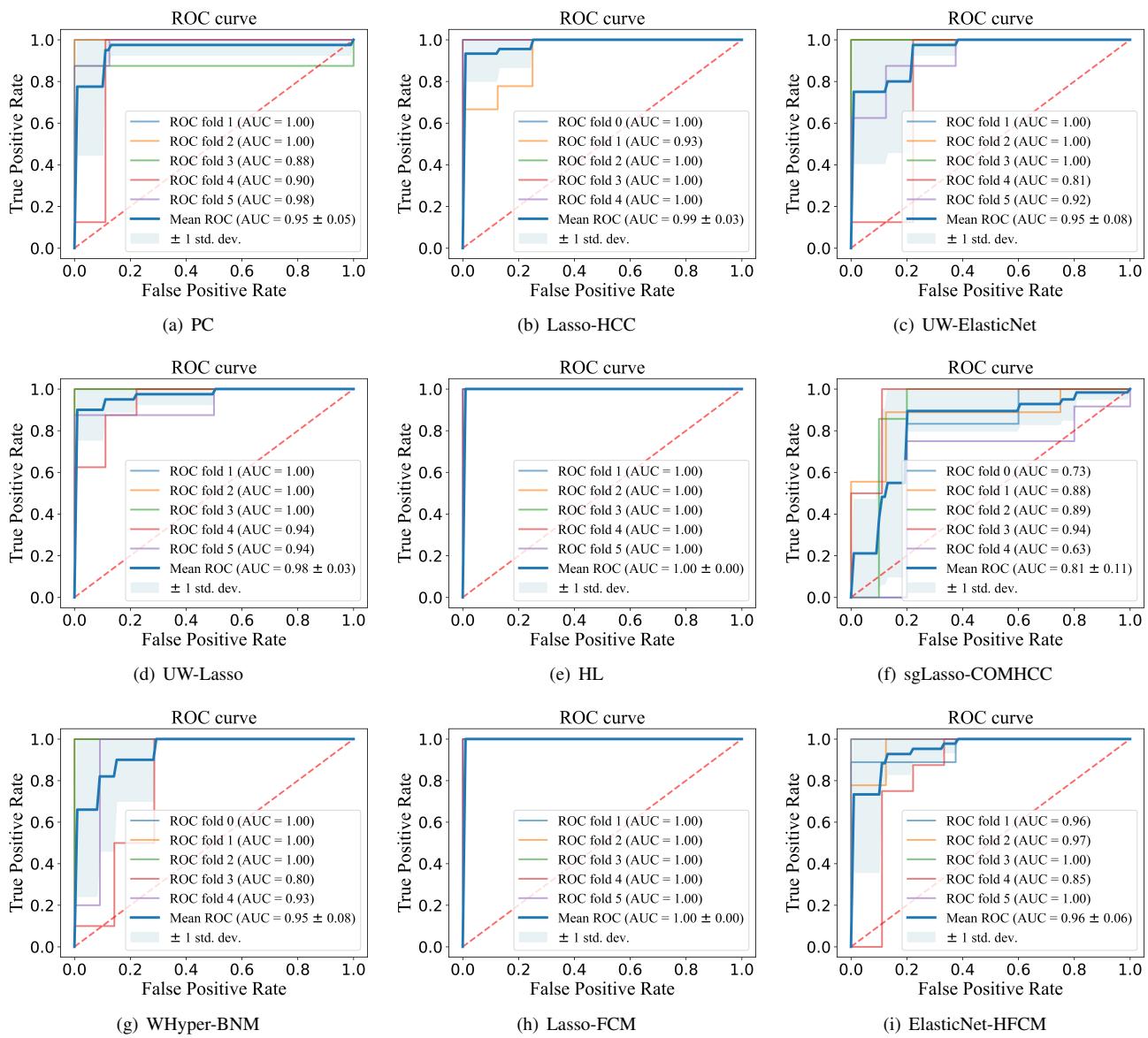


Fig. S2. The 5-fold crossover ROC curves of 12 methods on Alzheimer's disease fMRI data. (a) PC, (b) Lasso-HCC, (c) UW-ElasticNet, (d) UW-Lasso, (e) HL, (f) sgLasso-COMHCC, (g) WHyper-BNM, (h) Lasso-FCM, (i) ElasticNet-HFCM, (j) Hyper-FCM o/w FCM, (k) Hyper-FCM o/w hyper, and (l) Hyper-FCM.



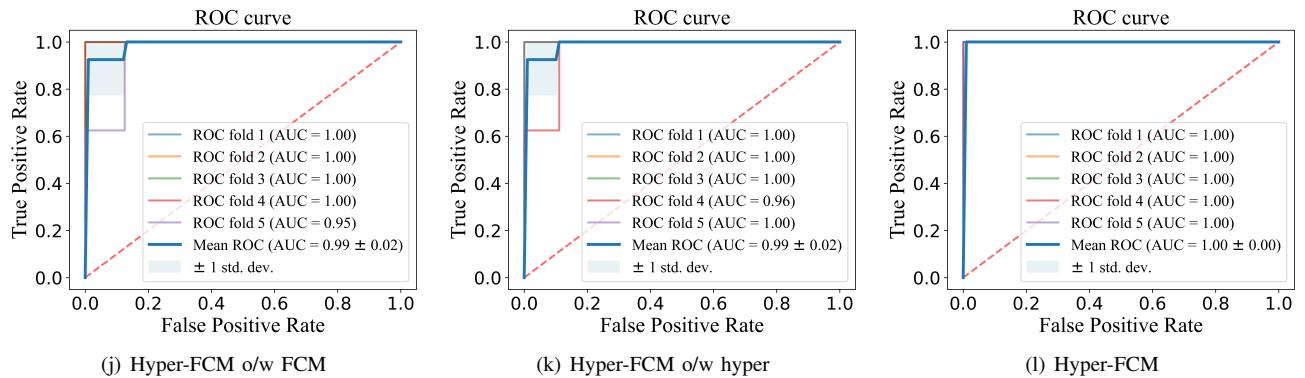


Fig. S3. The 5-fold crossover ROC curves of 12 methods on Reading Brain L1 Adult fMRI data. (a) PC, (b) Lasso-HCC, (c) UW-ElasticNet, (d) UW-Lasso, (e) HL, (f) sgLasso-COMHCC, (g) WHyper-BNM, (h) Lasso-FCM, (i) ElasticNet-HFCM, (j) Hyper-FCM o/w FCM, (k) Hyper-FCM o/w hyper, and (l) Hyper-FCM.