DG

15个人的准确率为 [0.791713747645951, 0.8670433145009416, 0.7871939736346516, 0.7947269303201506, 0.8775894538606404, 0.8406779661016949, 0.7465160075329567, 0.6681732580037665, 0.7943502824858757, 0.8045197740112995, 0.8613935969868173, 0.9559322033898305, 0.7453860640301319, 0.7608286252354048, 0.8244821092278719]

15个人的最佳准确率为 [0.8711864406779661, 0.8926553672316384, 0.7898305084745763, 0.8625235404896422, 0.8843691148775894, 0.8538606403013183, 0.751412429378531, 0.7344632768361582, 0.799623352165725, 0.8809792843691149, 0.9193973634651601, 0.9559322033898305, 0.767608286252354, 0.7672316384180791, 0.8305084745762712]

平均最佳准确率为：0.8374,标准差为0.0640

DA MAE

15个人的准确率为 [1.0, 0.9638418079096045, 0.8214689265536723, 0.9480225988700565, 0.9423728813559322, 0.8414312617702449, 0.8632768361581921, 0.7536723163841808, 0.832391713747646, 0.9988700564971752, 0.9231638418079096, 0.9386064030131827, 0.8564971751412429, 0.8734463276836159, 0.8602636534839925]

15个人的f1为 [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

15个人的mat为 [[], [], [], [], [], [], [], [], [], [], [], [], [], [], []]

15个人的auc为 [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

平均准确率为：**0.8945**,方差为0.0686

old acc [0.9856873822975518, 0.9491525423728814, 0.8071563088512241, 0.9220338983050848, 0.8783427495291902, 0.8308851224105461, 0.800376647834275, 0.7122410546139359, 0.8259887005649718, 0.9487758945386064, 0.8704331450094162, 0.9265536723163842, 0.8290018832391713, 0.8598870056497175, 0.8455743879472694]

**DA MFA-LR-90\_24**

15个人的准确率为 [0.8666666666666667, 0.9905838041431262, 0.8120527306967985, 0.9672316384180791, 0.8979284369114877, 0.8666666666666667, 0.9171374764595104, 0.7789077212806026, 0.8651600753295668, 0.9887005649717514, 0.8757062146892656, 0.9875706214689266, 0.8945386064030132, 0.8357815442561205, 1.0]

15个人的f1为 [0, 0.990581925277953, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

15个人的mat为 [[], array([[860, 0, 25],

[ 0, 885, 0],

[ 0, 0, 885]]), [], [], [], [], [], [], [], [], [], [], [], [], []]

15个人的auc为 [0, 0.9929378531073446, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

平均准确率为：**0.9030**,方差为0.0678

old acc [0.8666666666666667, 0.9905838041431262, 0.8056497175141243, 0.9630885122410546, 0.8949152542372881, 0.8666666666666667, 0.9129943502824859, 0.7483992467043314, 0.8380414312617702, 0.9822975517890772, 0.8708097928436912, 0.9849340866290018, 0.8666666666666667, 0.832015065913371, 0.9868173258003766]

**DA-fun 1\*mmd**

5个人的准确率为 [1.0, 0.9668549905838042, 0.7977401129943503, 0.9126177024482109, 0.9333333333333333, 0.8681732580037664, 0.9156308851224105, 0.9450094161958569, 0.8839924670433145, 0.9774011299435028, 0.9005649717514125, 0.9890772128060263, 0.8753295668549906, 0.815442561205273, 0.9231638418079096]

15个人的f1为 [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

15个人的mat为 [[], [], [], [], [], [], [], [], [], [], [], [], [], [], []]

15个人的auc为 [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

平均准确率为：0.9136,方差为0.0573

old acc [0.9796610169491525, 0.855743879472693, 0.7740112994350282, 0.3333333333333333, 0.44708097928436913, 0.3333333333333333, 0.8696798493408663, 0.6666666666666666, 0.8105461393596987, 0.8086629001883239, 0.3333333333333333, 0.6632768361581921, 0.3984934086629002, 0.7702448210922788, 0.8109227871939736]

90.24%-91.36%

**DA-fun 0.5\*mmd**

15个人的准确率为 [1.0, 1.0, 0.8173258003766478, 1.0, 0.9035781544256121, 0.8862523540489642, 0.8312617702448211, 0.7736346516007533, 0.8711864406779661, 1.0, 0.9099811676082863, 0.9973634651600753, 0.8708097928436912, 0.8436911487758946, 1.0]

15个人的f1为 [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

15个人的mat为 [[], [], [], [], [], [], [], [], [], [], [], [], [], [], []]

15个人的auc为 [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

平均准确率为：**0.9137**,方差为0.0772

old acc [1.0, 0.9981167608286252, 0.8105461393596987, 0.983804143126177, 0.8952919020715631, 0.863653483992467, 0.7958568738229755, 0.7167608286252354, 0.847457627118644, 0.9902071563088513, 0.8760828625235405, 0.9551789077212806, 0.8666666666666667, 0.8026365348399247, 1.0]

**DA-fun 0.5\*mmd (91.37的基础上，添加目标域的mcc loss**

**MFA-LR:**

15个人的准确率： [1.0, 0.9830508474576272, 0.8041431261770244, 0.9830508474576272, 0.935969868173258, 0.8851224105461394, 0.8173258003766478, 0.8173258003766478, 0.9001883239171374, 1.0, 0.8945386064030132, 0.9962335216572504, 0.9303201506591338, 0.8267419962335216, 0.943502824858757]

平均准确率： **0.9145**009416195857

MFA-LR-gai-9148

15个人的准确率： [1.0, 0.9736346516007532, 0.800376647834275, 0.9811676082862524, 0.9416195856873822, 0.8851224105461394, 0.8286252354048964, 0.7871939736346516, 0.935969868173258, 0.9962335216572504, 0.8945386064030132, 0.9943502824858758, 0.9171374764595104, 0.8342749529190208, 0.9510357815442562]

平均准确率： 0.**9147**520401757689

MFA-LR

15个人的准确率： [1.0, 0.9548022598870056, 0.847457627118644, 0.9548022598870056, 0.9736346516007532, 0.928436911487759, 0.8662900188323918, 0.8097928436911488, 0.9566854990583804, 0.928436911487759, 0.9548022598870056, 0.9472693032015066, 0.8926553672316384, 0.9322033898305084, 0.928436911487759]

平均准确率： 0.**9250**470809792845

MFA-LR bottleneck\_dim512->128

15个人的准确率： [0.9849340866290018, 0.9585687382297552, 0.8418079096045198, 0.9585687382297552, 0.9566854990583804, 0.9133709981167608, 0.8436911487758946, 0.8229755178907722, 0.9510357815442562, 0.9774011299435028, 0.9642184557438794, 0.9943502824858758, 0.9096045197740112, 0.8983050847457628, 0.96045197740113]

平均准确率： 0.**9290**646578782173

将model传到RSDA中

15个人的准确率： [1.0, 0.967984934086629, 0.8282485875706215, 0.9947269303201507, 0.9156308851224105, 0.896045197740113, 0.8892655367231639, 0.8546139359698681, 0.9370998116760829, 0.9849340866290018, 0.9649717514124294, 0.9751412429378531, 0.8418079096045198, 0.8949152542372881, 0.9634651600753296]

平均准确率： 0.**9272**567482736974

**MFA-LR-gai2:** 320，128：**92.41**改为四元数神经网络：92.08 **decoder参数更新0.1：93.24**

**MFA-LR-siyuan-01:** 320，256：**92.73**改为四元数神经网络：92.72 **decoder参数更新0.1：**

**92.41**

15个人的准确率： [1.0, 0.9728937728937729, 0.8282051282051283, 0.9787545787545787, 0.9428571428571428, 0.9142857142857143, 0.8505494505494505, 0.8575091575091575, 0.919047619047619, 0.9835164835164835, 0.9615384615384616, 0.9864468864468865, 0.8465201465201465, 0.8626373626373627, 0.9567765567765568]

平均准确率： 0.9241025641025641

15个人的准确率： [1.0, 0.9762452107279693, 0.8272030651340996, 0.9521072796934866, 0.9329501915708812, 0.9160919540229885, 0.8513409961685824, 0.8540229885057471, 0.9298850574712644, 0.9908045977011494, 0.9509578544061302, 0.9969348659003832, 0.8739463601532567, 0.8846743295019157, 0.9704980842911878]

平均准确率： 0.**9271**775223499362

**MFA-LR-gai2(DA-93\_24):**

15个人的准确率： **[1.0, 0.9743295019157088, 0.8390804597701149, 0.9632183908045977, 0.9624521072796934, 0.9099616858237548, 0.8938697318007662, 0.8632183908045977, 0.9356321839080459, 0.9988505747126437, 0.9601532567049809, 0.9919540229885058, 0.8659003831417624, 0.8796934865900383, 0.9475095785440613]**

平均准确率： 0.**9323**882503192847

现在将93.24%结果的**MFA-LR-gai2中的QuaternionLinear改为**nn.Linear

15个人的准确率： [1.0, 0.963003663003663, 0.8300366300366301, 0.9769230769230769, 0.9501831501831501, 0.9194139194139194, 0.8509157509157509, 0.8487179487179487, 0.9391941391941392, 0.9835164835164835, 0.9575091575091575, 0.9886446886446887, 0.8644688644688645, 0.8417582417582418, 0.9666666666666667]

结果：93.16%

现在将93.24%结果的**MFA-LR-gai2中的QuaternionLinear改为**nn.Linear，批次64：93.33%

[1.0, 0.9789272030651341, 0.8245210727969349, 0.9586206896551724, 0.9371647509578545, 0.90727969348659, 0.8950191570881226, 0.8478927203065134, 0.946360153256705, 0.9927203065134099, 0.9624521072796934, 0.9927203065134099, 0.89272030651341, 0.8923371647509578, 0.9704980842911878]

平均准确率： **0.9332**822477650065

**DA-93\_24-batchsize200，批次64，其他的和MFA-LR-gai2保持一致：**

**MFA-LR-gai2，批次50，学习率0.1：**

**MFA-LR-siyuan-01，批次50，时间窗4，256，256，QuaternionLinear：**

**DA-93\_24-ab-timestep4,批次50，256，256，0.001，0.1：0.9243223443223445**

**DA-93\_24-ab-timestep4,批次50，256，256，0.01，0.1：0.9243223443223445**

更改时间窗为4，原本为12，批次36：

结果：0.9253479853479853

更改时间窗为4，原本为12，批次64：

结果：0.9218803418803421

**MFA-LR-siyuan-01:** 320，256,学习率0.1，时间窗4，MAE保持和**MFA-LR-gai2一样：**

结果： 0.9253968253968254

**MFA-LR-siyuan-01:** 320，256,学习率0.1，时间窗4，MAE保持和**MFA-LR-gai2一样,批次200：**

结果： 0.925958485958486

没有ce loss 的消融实验：15个人的准确率： [0.9977011494252873, 0.957471264367816, 0.8340996168582375, 0.957088122605364, 0.9421455938697318, 0.9183908045977012, 0.8632183908045977, 0.8689655172413793, 0.9268199233716475, 0.9885057471264368, 0.9616858237547893, 0.9877394636015325, 0.8452107279693487, 0.8827586206896552, 0.9379310344827586]

平均准确率： 0.9246487867177522

没有mask的消融实验：15个人的准确率： [1.0, 0.9720306513409962, 0.8409961685823755, 0.9563218390804598, 0.9762452107279693, 0.9084291187739464, 0.8750957854406131, 0.8452107279693487, 0.9241379310344827, 0.9808429118773946, 0.9647509578544061, 0.993103448275862, 0.8942528735632184, 0.8750957854406131, 0.9793103448275862]

平均准确率： 0.9323882503192849

**SEED-IV的session1的结果：**

15个人的准确率： [0.7393526405451448, 0.7512776831345827, 0.7921635434412265, 0.7018739352640545, 0.9011925042589438, 0.9625212947189097, 0.8296422487223168, 0.807495741056218, 0.8841567291311755, 0.5281090289608177, 0.7018739352640545, 0.8705281090289608, 0.7938671209540034, 0.8296422487223168, 0.8245315161839863]

平均准确率： 0.794548551959114

15个人的准确率： [0.7035775127768313, 0.737649063032368, 0.7410562180579217, 0.7291311754684838, 0.8432708688245315, 0.9080068143100511, 0.8211243611584327, 0.7938671209540034, 0.9131175468483816, 0.5570698466780238, 0.6916524701873935, 0.8296422487223168, 0.8023850085178875, 0.7546848381601363, 0.7955706984667802]

平均准确率为：**0.7748**,方差为0.0867

平均f1为：0.7612,方差为0.0939

平均auc为：0.8425,方差为0.0608

**SEED-IV的session2的结果：**

15个人的准确率： [0.8828947368421053, 0.7263157894736842, 0.8565789473684211, 0.7407894736842106, 0.7578947368421053, 0.8039473684210526, 0.7986842105263158, 0.9197368421052632, 0.9210526315789473, 0.8039473684210526, 0.9, 0.7381578947368421, 0.9223684210526316, 0.9513157894736842, 0.8789473684210526]

平均准确率： 0.8401754385964912

**SEED-IV的session3的结果：**

15个人的准确率： [0.8306666666666667, 0.8933333333333333, 0.8, 0.656, 0.556, 0.792, 0.7346666666666667, 0.9306666666666666, 0.908, 0.7026666666666667, 0.9253333333333333, 0.9026666666666666, 0.8533333333333334, 0.9493333333333334, 0.8573333333333333]

平均准确率： 0.8194666666666667

SEED session 1

15个人的准确率： [1.0, 0.9743295019157088, 0.8390804597701149, 0.9632183908045977, 0.9624521072796934, 0.9099616858237548, 0.8938697318007662, 0.8632183908045977, 0.9356321839080459, 0.9988505747126437, 0.9601532567049809, 0.9919540229885058, 0.8659003831417624, 0.8796934865900383, 0.9475095785440613]

平均准确率为：0.9324,方差为0.0515

平均f1为：0.9317,方差为0.0523

平均auc为：0.9493,方差为0.0386

消融实验:

**Linear layer：**

15个人的准确率： [1.0, 0.9613026819923371, 0.8501915708812261, 0.9946360153256705, 0.9363984674329502, 0.9015325670498084, 0.8459770114942529, 0.882375478927203, 0.9444444444444444, 0.9927203065134099, 0.9701149425287356, 0.9911877394636015, 0.8517241379310345, 0.9061302681992337, 0.9448275862068966]

平均准确率为：0.9316,方差为0.0535

平均f1为：0.9315,方差为0.0536

平均auc为：0.9487,方差为0.0401

MFA\_LR 平均运行时间: 2873.7995 秒

15个人的准确率： [1.0, 0.9743295019157088, 0.8390804597701149, 0.9632183908045977, 0.9624521072796934, 0.9099616858237548, 0.8938697318007662, 0.8632183908045977, 0.9356321839080459, 0.9988505747126437, 0.9601532567049809, 0.9919540229885058, 0.8659003831417624, 0.8796934865900383, 0.9475095785440613]

平均准确率为：0.9324,方差为0.0515

平均f1为：0.9317,方差为0.0523

平均auc为：0.9493,方差为0.0386

MFA\_LR 平均运行时间: 3233.4775 秒

15个人的准确率： [1.0, 0.9804597701149426, 0.8432950191570882, 0.9586206896551724, 0.9226053639846743, 0.9, 0.881992337164751, 0.8773946360153256, 0.9505747126436782, 0.9873563218390805, 0.9616858237547893, 0.9873563218390805, 0.8513409961685824, 0.8812260536398467, 0.9425287356321839]

平均准确率为：0.9284,方差为0.0507

平均f1为：0.9280,方差为0.0511

平均auc为：0.9463,方差为0.0380

MFA\_LR 平均运行时间: 2679.9526 秒

15个人的准确率为 [0.8666666666666667, 0.9905838041431262, 0.8120527306967985, 0.9672316384180791, 0.8979284369114877, 0.8666666666666667, 0.9171374764595104, 0.7789077212806026, 0.8651600753295668, 0.9887005649717514, 0.8757062146892656, 0.9875706214689266, 0.8945386064030132, 0.8357815442561205, 1.0]

15个人的f1为 [0, 0.990581925277953, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

15个人的mat为 [[], array([[860, 0, 25],

[ 0, 885, 0],

[ 0, 0, 885]]), [], [], [], [], [], [], [], [], [], [], [], [], []]

15个人的auc为 [0, 0.9929378531073446, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

平均准确率为：**0.9030**,方差为0.0678

**No mask:**

15个人的准确率： [1.0, 0.9689655172413794, 0.8478927203065134, 0.9704980842911878, 0.9482758620689655, 0.9042145593869731, 0.8628352490421456, 0.8544061302681992, 0.9379310344827586, 0.9812260536398467, 0.9628352490421456, 0.9911877394636015, 0.8697318007662835, 0.9099616858237548, 0.9796934865900383]

平均准确率为：**0.9326**,方差为0.0516

平均f1为：0.9324,方差为0.0520

平均auc为：0.9495,方差为0.0387

15个人的准确率为 [1.0, 1.0, 0.8173258003766478, 1.0, 0.9035781544256121, 0.8862523540489642, 0.8312617702448211, 0.7736346516007533, 0.8711864406779661, 1.0, 0.9099811676082863, 0.9973634651600753, 0.8708097928436912, 0.8436911487758946, 1.0]

15个人的f1为 [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

15个人的mat为 [[], [], [], [], [], [], [], [], [], [], [], [], [], [], []]

15个人的auc为 [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

平均准确率为：**0.9137**,方差为0.0772

**No MMD:**

15个人的准确率： [1.0, 0.9689655172413794, 0.8279693486590038, 0.9532567049808429, 0.9467432950191571, 0.9111111111111111, 0.835632183908046, 0.8632183908045977, 0.9268199233716475, 0.9996168582375479, 0.9666666666666667, 0.9900383141762452, 0.8582375478927203, 0.8800766283524905, 0.9927203065134099]

平均准确率： **0.9280**715197956578

15个人的最佳准确率为 [0.8711864406779661, 0.8926553672316384, 0.7898305084745763, 0.8625235404896422, 0.8843691148775894, 0.8538606403013183, 0.751412429378531, 0.7344632768361582, 0.799623352165725, 0.8809792843691149, 0.9193973634651601, 0.9559322033898305, 0.767608286252354, 0.7672316384180791, 0.8305084745762712]

平均最佳准确率为：0.8374,标准差为0.0640

**NO CMAE:**

15个人的准确率： [1.0, 0.9716475095785441, 0.8191570881226053, 0.9885057471264368, 0.9409961685823754, 0.9134099616858238, 0.8647509578544061, 0.8521072796934865, 0.9425287356321839, 0.9988505747126437, 0.9582375478927203, 0.9904214559386973, 0.8636015325670499, 0.8980842911877395, 0.9406130268199234]

平均准确率为：**0.9295**,方差为0.0565

平均f1为：0.9296,方差为0.0567

平均auc为：0.9471,方差为0.0424

15个人的准确率为 [1.0, 0.9638418079096045, 0.8214689265536723, 0.9480225988700565, 0.9423728813559322, 0.8414312617702449, 0.8632768361581921, 0.7536723163841808, 0.832391713747646, 0.9988700564971752, 0.9231638418079096, 0.9386064030131827, 0.8564971751412429, 0.8734463276836159, 0.8602636534839925]

15个人的f1为 [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

15个人的mat为 [[], [], [], [], [], [], [], [], [], [], [], [], [], [], []]

15个人的auc为 [0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0]

平均准确率为：**0.8945**,方差为0.0686

**No ADV**

15个人的准确率： [1.0, 0.957088122605364, 0.8176245210727969, 0.9275862068965517, 0.9168582375478928, 0.9176245210727969, 0.8862068965517241, 0.8532567049808429, 0.9409961685823754, 0.9973180076628353, 0.9555555555555556, 0.9831417624521073, 0.8264367816091954, 0.8685823754789272, 0.9245210727969349]

平均准确率为：0.9182,方差为0.0560

平均f1为：0.9179,方差为0.0562

平均auc为：0.9386,方差为0.0420

**SEED-IV:**

NO ADV:

这个人的准确率： [0.7666098807495741, 0.6882453151618398, 0.8858603066439523, 0.717206132879046, 0.8551959114139693, 0.8620102214650767, 0.8091993185689949, 0.7989778534923339, 0.919931856899489, 0.5826235093696763, 0.7342419080068143, 0.7768313458262351, 0.8057921635434412, 0.848381601362862, 0.7751277683134583]

15个人的准确率： [0.7666098807495741, 0.6882453151618398, 0.8858603066439523, 0.717206132879046, 0.8551959114139693, 0.8620102214650767, 0.8091993185689949, 0.7989778534923339, 0.919931856899489, 0.5826235093696763, 0.7342419080068143, 0.7768313458262351, 0.8057921635434412, 0.848381601362862, 0.7751277683134583]

平均准确率为：0.7884,方差为0.0826

平均f1为：0.7735,方差为0.0923

平均auc为：0.8536,方差为0.0569

NO MASK:

这个人的准确率： [0.7410562180579217, 0.717206132879046, 0.7666098807495741, 0.7495741056218058, 0.8603066439522998, 0.8875638841567292, 0.8126064735945485, 0.8006814310051107, 0.919931856899489, 0.5332197614991482, 0.7120954003407155, 0.8398637137989778, 0.7955706984667802, 0.8211243611584327, 0.7989778534923339]

15个人的准确率： [0.7410562180579217, 0.717206132879046, 0.7666098807495741, 0.7495741056218058, 0.8603066439522998, 0.8875638841567292, 0.8126064735945485, 0.8006814310051107, 0.919931856899489, 0.5332197614991482, 0.7120954003407155, 0.8398637137989778, 0.7955706984667802, 0.8211243611584327, 0.7989778534923339]

平均准确率为：0.7838,方差为0.0883

平均f1为：0.7733,方差为0.0862

平均auc为：0.8496,方差为0.0587

NO CMAE:

这个人的准确率： [0.7529812606473595, 0.727427597955707, 0.7836456558773425, 0.7291311754684838, 0.8960817717206133, 0.8637137989778535, 0.8143100511073254, 0.797274275979557, 0.9131175468483816, 0.555366269165247, 0.7325383304940375, 0.8398637137989778, 0.7853492333901193, 0.8330494037478705, 0.8040885860306644]

15个人的准确率： [0.7529812606473595, 0.727427597955707, 0.7836456558773425, 0.7291311754684838, 0.8960817717206133, 0.8637137989778535, 0.8143100511073254, 0.797274275979557, 0.9131175468483816, 0.555366269165247, 0.7325383304940375, 0.8398637137989778, 0.7853492333901193, 0.8330494037478705, 0.8040885860306644]

平均准确率为：0.7885,方差为0.0834

平均f1为：0.7717,方差为0.0872

平均auc为：0.8515,方差为0.0556

NO MMD:

这个人的准确率： [0.7308347529812607, 0.7018739352640545, 0.8756388415672913, 0.717206132879046, 0.8398637137989778, 0.8773424190800682, 0.838160136286201, 0.7853492333901193, 0.9267461669505963, 0.5775127768313458, 0.6814310051107325, 0.7938671209540034, 0.8006814310051107, 0.8330494037478705, 0.7700170357751278]

15个人的准确率： [0.7308347529812607, 0.7018739352640545, 0.8756388415672913, 0.717206132879046, 0.8398637137989778, 0.8773424190800682, 0.838160136286201, 0.7853492333901193, 0.9267461669505963, 0.5775127768313458, 0.6814310051107325, 0.7938671209540034, 0.8006814310051107, 0.8330494037478705, 0.7700170357751278]

平均准确率为：0.7833,方差为0.0871

平均f1为：0.7653,方差为0.0947

平均auc为：0.8503,方差为0.0595

NO SIYUAN:

这个人的准确率： [0.7359454855195912, 0.7052810902896082, 0.8160136286201022, 0.7342419080068143, 0.8858603066439523, 0.889267461669506, 0.8500851788756388, 0.8654173764906303, 0.899488926746167, 0.6320272572402045, 0.7001703577512777, 0.8347529812606473, 0.807495741056218, 0.8603066439522998, 0.7921635434412265]

15个人的准确率： [0.7359454855195912, 0.7052810902896082, 0.8160136286201022, 0.7342419080068143, 0.8858603066439523, 0.889267461669506, 0.8500851788756388, 0.8654173764906303, 0.899488926746167, 0.6320272572402045, 0.7001703577512777, 0.8347529812606473, 0.807495741056218, 0.8603066439522998, 0.7921635434412265]

平均准确率为：0.8006,方差为0.0787

平均f1为：0.7839,方差为0.0913

平均auc为：0.8578,方差为0.0531

四元数线性层（QLinear）相比普通 Linear Layer **减少了参数量（通常 1/4）**，但计算涉及特殊的四元数运算（哈密顿积），需要额外计算开销。

四元数线性层（Quaternion Linear Layer, QLinear）相比普通 Linear Layer **减少了 1/4 的参数量**，主要原因是 **四元数（quaternion）本质上由四个实数组成，但它们共享部分参数**。

跨session:

Siyuan:

15个人的准确率： [1.0, 1.0, 1.0, 0.7068965517241379, 1.0, 1.0, 0.7567049808429118, 1.0, 1.0, 1.0, 0.603448275862069, 0.4942528735632184, 1.0, 1.0, 1.0]

平均准确率为：0.9041,方差为0.1674

平均f1为：0.9037,方差为0.1683

平均auc为：0.9281,方差为0.1255

线性层：

15个人的准确率： [1.0, 1.0, 1.0, 0.7183908045977011, 1.0, 0.9923371647509579, 0.7547892720306514, 1.0, 1.0, 1.0, 0.6015325670498084, 0.49808429118773945, 1.0, 1.0, 0.842911877394636]

平均准确率为：0.8939,方差为0.1645

平均f1为：0.8938,方差为0.1645

平均auc为：0.9204,方差为0.1234

LSTM:

15个人的准确率： [0.6551724137931034, 0.9176245210727969, 0.9540229885057471, 0.7145593869731801, 0.9597701149425287, 0.9961685823754789, 0.7375478927203065, 0.9348659003831418, 0.8984674329501916, 0.975095785440613, 0.5287356321839081, 0.6149425287356322, 0.9252873563218391, 0.842911877394636, 0.7222222222222222]

平均准确率为：0.8252,方差为0.1447

平均f1为：0.8247,方差为0.1451

平均auc为：0.8689,方差为0.1085

DA-QLSTM-420

15个人的准确率： [1.0, 0.9475095785440613, 0.7827586206896552, 0.8164750957854406, 0.8850574712643678, 0.8904214559386974, 0.7551724137931034, 0.8390804597701149, 1.0, 0.8670498084291188, 0.9122605363984674, 0.8616858237547893, 0.6425287356321839, 0.7946360153256705, 0.8406130268199233]

平均准确率： 0.8556832694763729