Two-Stream Graph Convolutional Network-Incorporated Latent Feature Analysis-Supplementary File

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This is the supplementary file for the paper entitled "Two-Stream Graph Convolutional Network-Incorporated Latent Feature Analysis". Additional tables and figures are put into this file and cited by the paper.

1. TABLES

TABLE S1
THE RMSE AND EPOCHS OF TGLFA WITH DIFFERENT NUMBERS OF ATTRIBUTE CHARACTERISTICS EXTRACTION LAYERS ON D1.1-2.4.

No.	RMSE					Epochs (RMSE)				
	K=1	*K*=2	*K*=3	*K*=4	*K*=5	*K*=1	*K*=2	*K*=3	*K*=4	*K*=5
D1.1	1.2859	1.2732	1.2711	**1.2711**	1.2760	220	114	102	86	**68**
D1.2	1.2199	**1.2047**	1.2133	1.2150	1.2241	432	275	218	**216**	222
D1.3	1.1747	**1.1583**	1.1653	1.1632	1.1677	609	326	296	282	**257**
D1.4	1.1397	1.1255	**1.1249**	1.1280	1.1321	707	370	342	333	**295**
D2.1	0.5577	**0.5242**	0.5286	0.5355	0.5403	1000	290	258	218	**210**
D2.2	0.4831	**0.4673**	0.4697	0.4742	0.4771	570	338	318	196	**171**
D2.3	0.4512	0.4352	**0.4344**	0.4375	0.4405	547	381	373	**307**	331
D2.4	0.4287	0.4159	**0.4147**	0.4165	0.4204	717	425	403	**348**	375

TABLE S2
THE MAE AND EPOCHS OF TGLFA WITH DIFFERENT NUMBERS OF ATTRIBUTE CHARACTERISTICS EXTRACTION LAYERS ON D1.1-2.4

No.	MAE					Epochs (MAE)				
	K=1	*K*=2	*K*=3	*K*=4	*K*=5	*K*=1	*K*=2	*K*=3	*K*=4	*K*=5
D1.1	0.5233	0.5124	**0.5099**	0.5146	0.5169	367	214	204	114	**84**
D1.2	0.4769	0.4676	0.4665	**0.4657**	0.4668	371	222	221	212	**189**
D1.3	0.4557	0.4443	0.4449	0.4417	**0.4416**	383	257	234	222	**189**
D1.4	0.4384	0.4288	0.4258	0.4240	**0.4235**	371	277	259	234	**206**
D2.1	0.2067	**0.1878**	0.1891	0.1914	0.1927	1000	312	272	265	**227**
D2.2	0.1727	**0.1650**	0.1659	0.1653	0.1655	574	293	251	**203**	209
D2.3	0.1584	0.1522	0.1523	0.1517	**0.1516**	526	321	346	290	**290**
D2.4	0.1511	0.1455	0.1450	0.1447	**0.1447**	526	321	324	**304**	330

TABLE S3
THE RMSE, WIN/LOSS COUNTS, AND FRIEDMAN TEST RESULTS OF M1-15 ON ALL TESTING CASES.

No.	D1.1	D1.2	D1.3	D1.4	D2.1	D2.2	D2.3	D2.4	Win/Loss	F-Rank*
M1	1.6989±2.6E-3•	1.4632±6.5E-3•	1.3069±1.1E-2•	1.2077±2.2E-3•	0.6365±1.3E-3•	0.5238±1.4E-3•	0.4743±1.5E-4•	0.4531±2.4E-4•	8/0	8.38
M2	1.4527±7.6E-4•	1.2945±2.7E-3•	1.2294±4.5E-4•	1.1943±2.6E-3•	0.6985±1.1E-3•	0.5413±2.6E-3•	0.4884±5.7E-4•	0.4698±8.2E-4•	8/0	7.38
M3	1.7249±5.9E-3•	1.6751±4.0E-3•	1.6428±3.9E-3•	1.6127±3.8E-3•	0.8324±2.1E-3•	0.7844±1.1E-3•	0.7532±1.6E-3•	0.7273±3.8E-3•	8/0	13.63
M4	1.2922±2.5E-3•	1.2176±1.3E-3•	1.1712±5.1E-3•	1.1314±1.4E-3•	0.5364±1.9E-3•	0.4879±1.2E-3•	0.4449±1.6E-3•	0.4219±9.7E-4•	8/0	2.56
M5	1.5593±5.7E-3•	1.2906±4.2E-3•	1.1952±3.0E-3•	1.1400±1.4E-3•	0.7818±5.3E-3•	0.5561±1.6E-2•	0.4773±6.6E-3•	0.4394±2.8E-3•	8/0	6.75
M6	1.2842±8.2E-3•	1.2146±1.7E-3•	1.1725±2.7E-3•	1.1275±1.1E-3•	0.5738±3.3E-3•	0.4850±1.2E-3•	0.4498±1.1E-3•	0.4298±5.2E-4•	8/0	3.00
M7	1.5513±2.2E-4•	1.4316±3.2E-3•	1.2670±2.5E-3•	1.1607±1.2E-3•	0.6686±1.6E-3•	0.4930±6.7E-4•	0.4482±5.7E-4•	0.4220±5.2E-4•	8/0	6.38
M8	1.6376±4.1E-3•	1.4952±3.5E-3•	1.4264±3.3E-3•	1.3505±6.6E-3•	0.9373±2.5E-3•	0.7019±3.1E-3•	0.5563±6.0E-3•	0.4900±2.8E-3•	8/0	12.75
M9	1.5728±6.9E-4•	1.4740±2.9E-3•	1.3619±2.8E-3•	1.2397±9.4E-3•	0.9029±3.2E-3•	0.6509±5.5E-3•	0.5283±2.3E-3•	0.4785±1.5E-3•	8/0	11.00
M10	1.8186±4.3E-4•	1.7981±1.4E-3•	1.7871±1.9E-3•	1.7712±2.5E-3•	1.0096±2.2E-4•	0.9880±1.9E-4•	0.9680±2.3E-3•	0.9467±6.6E-3•	8/0	15.00
M11	1.4873±6.8E-3•	1.3014±4.7E-3•	1.2179±2.6E-3•	1.1601±1.4E-3•	0.6718±1.6E-3•	0.5210±2.6E-3•	0.4684±9.9E-4•	0.4438±6.9E-4•	8/0	6.13
M12	1.5495±9.5E-5•	1.4286±2.0E-3•	1.2643±2.3E-3•	1.1610±8.3E-4•	0.6634±2.0E-3•	0.4913±4.5E-4•	0.4476±3.6E-4•	0.4219±3.6E-4•	8/0	5.56
M13	1.5975±1.1E-3•	1.4939±7.2E-4•	1.4182±2.7E-3•	1.3296±1.2E-3•	0.8938±2.5E-3•	0.6308±1.7E-3•	0.5268±9.9E-4•	0.4892±1.1E-3•	8/0	11.25
M14	1.4224±1.8E-3•	1.3744±8.6E-3•	1.3447±3.6E-3•	1.3289±3.2E-3•	0.6535±4.3E-3•	0.6453±2.3E-4•	0.6430±3.1E-4•	0.6409±3.4E-4•	8/0	9.25
M15	**1.2535±9.0E-4**	**1.1869±1.1E-3**	**1.1462±5.7E-4**	**1.1158±9.0E-4**	**0.5250±7.9E-4**	**0.4661±8.2E-4**	**0.4348±8.4E-4**	**0.4170±5.8E-4**	—	**1.00**

**A lower F-rank value denotes a higher estimation accuracy; and • indicates that M15's RMSE is lower than that of the compared model.*

TABLE S4
THE MAE, WIN/LOSS COUNTS, AND FRIEDMAN TEST RESULTS OF M1-15 ON ALL TESTING CASES.

No.	D1.1	D1.2	D1.3	D1.4	D2.1	D2.2	D2.3	D2.4	Win/Loss	F-Rank*
M1	0.7037±6.9E-4 •	0.5815±2.6E-3 •	0.5186±3.9E-3 •	0.4805±9.5E-4 •	0.2324±7.0E-4 •	0.1932±6.4E-4 •	0.1755±9.9E-5 •	0.1675±1.5E-3 •	8/0	8.00
M2	0.5606±7.5E-4 •	0.4852±3.8E-4 •	0.4621±5.2E-4 •	0.4468±6.0E-4 •	0.2891±4.6E-4 •	0.1947±1.0E-3 •	0.1775±8.0E-4 •	0.1700±6.0E-4 •	8/0	6.13
M3	0.8066±6.4E-3 •	0.7777±5.0E-3 •	0.7688±6.4E-3 •	0.6991±1.7E-2 •	0.3818±4.8E-3 •	0.3550±3.2E-3 •	0.3350±2.6E-3 •	0.3249±2.1E-3 •	8/0	14.25
M4	0.5067±2.4E-3 •	0.4635±3.1E-3 •	0.4456±1.5E-3 •	0.4289±1.4E-3 •	0.1993±7.8E-4 •	0.1761±1.1E-3 •	0.1596±5.1E-4 •	0.1509±2.5E-4 •	8/0	2.69
M5	0.6081±5.2E-3 •	0.5116±2.4E-3 •	0.4724±2.9E-3 •	0.4474±3.2E-3 •	0.2830±1.5E-3 •	0.2157±7.5E-3 •	0.1891±9.3E-4 •	0.1767±7.3E-4 •	8/0	7.38
M6	0.5687±6.7E-3 •	0.5112±2.3E-3 •	0.4850±1.3E-3 •	0.4607±2.6E-3 •	0.2357±1.5E-3 •	0.1878±1.0E-3 •	0.1700±1.1E-3 •	0.1618±9.1E-4 •	8/0	5.38
M7	0.6423±4.9E-4 •	0.5620±1.9E-3 •	0.4892±6.3E-4 •	0.4458±3.9E-4 •	0.2375±1.0E-3 •	0.1747±2.4E-4 •	0.1589±2.9E-4 •	0.1485±4.6E-4 •	8/0	4.69
M8	0.6992±3.3E-3 •	0.6273±3.0E-3 •	0.5990±1.9E-3 •	0.5522±2.6E-3 •	0.3872±1.4E-3 •	0.2725±1.3E-3 •	0.2080±1.5E-3 •	0.1819±4.3E-4 •	8/0	12.38
M9	0.6634±1.6E-3 •	0.6064±1.6E-3 •	0.5488±1.5E-3 •	0.4930±7.3E-3 •	0.3469±1.4E-3 •	0.2380±1.9E-3 •	0.1940±6.6E-4 •	0.1769±5.1E-4 •	8/0	10.25
M10	0.7539±5.7E-5 •	0.7532±7.5E-5 •	0.7530±8.2E-5 •	0.7530±1.1E-4 •	0.4164±6.3E-5 •	0.4162±9.2E-5 •	0.4162±3.4E-5 •	0.4160±3.4E-5 •	8/0	14.63
M11	0.5674±5.9E-3 •	0.4967±2.0E-3 •	0.4712±9.6E-4 •	0.4467±1.6E-3 •	0.2555±1.2E-3 •	0.1899±1.5E-3 •	0.1714±8.1E-4 •	0.1635±5.4E-4 •	8/0	5.25
M12	0.6417±8.5E-4 •	0.5654±1.8E-3 •	0.4909±7.7E-4 •	0.4464±9.1E-4 •	0.2372±8.9E-4 •	0.1747±1.5E-4 •	0.1596±1.8E-4 •	0.1495±2.0E-4 •	8/0	5.13
M13	0.6862±1.2E-3 •	0.6360±1.0E-3 •	0.5988±2.1E-3 •	0.5491±2.2E-3 •	0.3628±1.8E-4 •	0.2394±5.6E-4 •	0.1990±3.6E-4 •	0.1847±3.5E-4 •	8/0	11.75
M14	0.6474±3.4E-4 •	0.5968±1.7E-2 •	0.5627±8.5E-4 •	0.5485±1.4E-3 •	0.2868±6.6E-4 •	0.2816±4.1E-4 •	0.2787±1.1E-3 •	0.2781±1.6E-4 •	8/0	11.13
M15	**0.4948±4.2E-4**	**0.4551±1.2E-3**	**0.4334±1.7E-3**	**0.4199±2.0E-3**	**0.1873±5.1E-4**	**0.1628±4.0E-4**	**0.1500±5.3E-4**	**0.1436±2.8E-4**	—	**1.00**

**A lower F-rank value denotes a higher estimation accuracy; and • indicates that M15's MAE is lower than that of the compared model.*

TABLE S5
THE TRAINING TIME COST IN RMSE (SEC.), WIN/LOSS COUNTS, AND FRIEDMAN TEST RESULTS OF M1-15 ON ALL TESTING CASES.

No.	D1.1	D1.2	D1.3	D1.4	D2.1	D2.2	D2.3	D2.4	Win/Loss	F-Rank*
M1	11954±4092.98 •	12107±4769.09 •	11156±5460.32 •	8583±2421.37 •	17267±2272.97 •	13982±2368.04 •	8882±2224.26 •	5175±1532.91 •	8/0	10.38
M2	235±7.12 •	325±17.97 •	299±17.51 •	327±22.12 •	**184±7.78**	433±18.45 •	**368±22.09**	**379±26.10**	5/3	1.63
M3	1070±24.43 •	1002±116.82 •	1032±21.07 •	1246±19.00 •	1336±98.60 •	1615±122.60 •	1624±125.01 •	1834±220.93 •	8/0	3.25
M4	881±87.55 •	1015±53.73 •	2194±121.24 •	2419±251.35 •	14625±2342.49 •	2647±314.09 •	3643±833.96 •	4446±763.50 •	8/0	6.25
M5	2416±115.26 •	2402±55.87 •	2591±90.47 •	2823±80.26 •	2462±36.55 •	2252±55.95 •	2499±168.56 •	2743±72.51 •	8/0	6.50
M6	1537±52.96 •	1833±93.52 •	2277±129.40 •	2650±95.35 •	2328±767.43 •	1748±50.33 •	1853±118.35 •	2171±107.51 •	8/0	5.00
M7	3242±136.54 •	9331±193.59 •	12299±234.04 •	14211±302.65 •	4964±106.70 •	8086±144.00 •	10019±283.43 •	11812±156.58 •	8/0	8.88
M8	5122±448.81 •	11377±662.84 •	17593±316.03 •	24323±1609.49 •	3382±375.85 •	9568±730.37 •	17055±1170.95 •	23215±2260.42 •	8/0	10.75
M9	5679±178.29 •	11356±658.53 •	18836±888.19 •	24886±193.27 •	3823±153.40 •	7954±216.53 •	10724±386.23 •	12689±434.26 •	8/0	10.38
M10	2151±403.94 •	1977±260.81 •	1327±219.04 •	1288±141.65 •	1682±492.23 •	1381±488.28 •	2085±655.38 •	2306±1044.22 •	8/0	4.63
M11	36992±1391.36 •	33108±1317.36 •	35478±702.79 •	37621±760.63 •	21164±492.46 •	26404±409.56 •	25938±766.47 •	29208±644.28 •	8/0	14.38
M12	3272±204.54 •	9714±83.95 •	12415±121.75 •	14405±119.67 •	5249±103.26 •	8445±155.70 •	10353±149.50 •	12006±276.26 •	8/0	9.88
M13	6611±483.08 •	12931±310.82 •	20614±541.37 •	28265±511.37 •	4572±162.75 •	13219±585.96 •	19211±436.56 •	22050±828.51 •	8/0	12.13
M14	22562±3206.86 •	29119±4938.11 •	33585±6431.56 •	42091±11482.16 •	22139±3590.56 •	28474±3703.66 •	36034±1900.76 •	40132±6234.69 •	8/0	14.63
M15	**109±13.87**	**253±48.28**	**266±17.92**	**297±11.55**	441±74.81	**411±31.99**	445±42.42	447±30.80	—	**1.38**

**A lower F-rank value denotes a higher computational efficiency; and • indicates that M15's time cost to converge in RMSE is less than that of the compared model.*

TABLE S6
THE TRAINING TIME COST IN MAE (SEC.), WIN/LOSS COUNTS, AND FRIEDMAN TEST RESULTS OF M1-15 ON ALL TESTING CASES.

No.	D1.1	D1.2	D1.3	D1.4	D2.1	D2.2	D2.3	D2.4	Win/Loss	F-Rank*
M1	10556±4357.46 •	12148±4143.32 •	10872±5402.71 •	8185±1562.90 •	17170±2273.43 •	14120±2646.15 •	8130±2213.19 •	4619±1212.11 •	8/0	9.75
M2	293±33.87 •	356±30.67 •	351±11.37 •	356±28.45 •	**257±21.59**	492±27.73 •	434±40.41 •	441±44.99 •	7/1	1.88
M3	1180±229.11 •	1058±306.69 •	1224±97.29 •	23764±11859.43 •	2054±219.49 •	1868±112.63 •	1920±181.61 •	2125±311.95 •	8/0	4.75
M4	990±111.53 •	1290±275.14 •	2338±185.49 •	3311±974.27 •	14513±2480.57 •	3243±660.04 •	5220±1312.60 •	5666±699.69 •	8/0	6.75
M5	1949±98.10 •	1928±47.91 •	2014±110.80 •	2084±83.22 •	2463±39.64 •	2124±49.26 •	2206±80.28 •	2423±73.80 •	8/0	5.50
M6	1680±168.65 •	1832±113.62 •	2055±111.77 •	2219±200.02 •	2342±829.11 •	1701±50.05 •	1732±172.04 •	1642±78.67 •	8/0	4.63
M7	8249±201.41 •	11615±141.02 •	12947±149.46 •	13713±141.48 •	6626±100.16 •	8107±162.61 •	9309±162.23 •	10492±64.46 •	8/0	8.63
M8	6830±574.10 •	13351±1072.35 •	20042±1105.05 •	28866±773.37 •	4363±173.32 •	11372±442.11 •	17796±617.42 •	21347±778.06 •	8/0	10.50
M9	8943±227.51 •	15719±495.71 •	21659±730.30 •	25554±395.15 •	5037±110.10 •	8236±209.58 •	9837±157.11 •	11222±250.25 •	8/0	10.75
M10	4813±191.31 •	2344±89.84 •	1426±60.30 •	1079±18.84 •	2475±186.80 •	1211±58.33 •	737±31.32 •	556±25.01 •	8/0	4.50
M11	39764±1490.50 •	32747±1230.10 •	33187±429.97 •	34077±483.32 •	25385±612.62 •	24920±581.60 •	23243±484.09 •	24361±324.07 •	8/0	14.50
M12	8518±182.16 •	11926±97.50 •	13210±107.78 •	13968±72.74 •	6768±150.34 •	8223±179.02 •	9509±138.70 •	10772±267.13 •	8/0	9.63
M13	9250±203.44 •	16228±640.70 •	24379±335.21 •	31689±470.50 •	7372±173.82 •	14798±289.76 •	19726±747.49 •	22922±955.79 •	8/0	12.75
M14	23004±3830.51 •	30423±5773.42 •	33634±6202.17 •	31525±2403.30 •	21042±3438.79 •	26048±4605.46 •	27398±5724.56 •	36247±3486.86 •	8/0	14.38
M15	**196±33.27**	**228±41.61**	**221±12.83**	**208±10.76**	451±63.60	**331±39.80**	**343±34.54**	**328±64.10**	—	**1.13**

**A lower F-rank value denotes a higher computational efficiency; and • indicates that M15's time cost to converge in MAE is less than that of the compared model.*

TABLE S7
WILCOXON SIGNED-RANKS TEST RESULTS IN RMSE AND MAE CORRESPONDING TO TABLES S3 AND S4.

Comparison	*R*+*	*R*–	*p*-value**
M15 vs M1	136	0	**2.41E-4**
M15 vs M2	136	0	**2.41E-4**
M15 vs M3	136	0	**2.41E-4**
M15 vs M4	136	0	**2.41E-4**
M15 vs M5	136	0	**2.41E-4**
M15 vs M6	136	0	**2.41E-4**
M15 vs M7	136	0	**2.41E-4**
M15 vs M8	136	0	**2.41E-4**
M15 vs M9	136	0	**2.41E-4**
M15 vs M10	136	0	**2.41E-4**
M15 vs M11	136	0	**2.41E-4**
M15 vs M12	136	0	**2.41E-4**
M15 vs M13	136	0	**2.41E-4**
M15 vs M14	136	0	**2.41E-4**

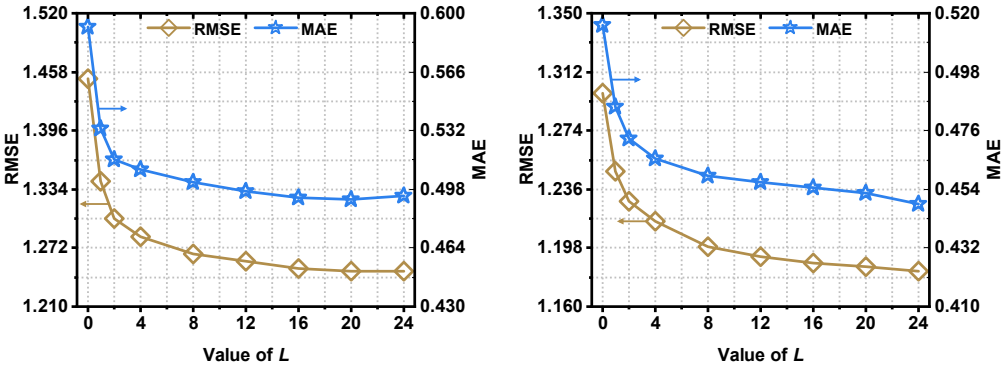
**For M15, a higher R+ value indicates a higher estimation accuracy; **With the significance level of 0.1, the accepted hypotheses are highlighted.*

TABLE S8
WILCOXON SIGNED-RANKS TEST RESULTS ON CONVERGING TIME COST IN RMSE AND MAE CORRESPONDING TO TABLES S5 AND S6.

Comparison	*R*+*	*R*–	*p*-value**
M15 vs M1	136	0	**2.41E-4**
M15 vs M2	95	41	**8.53E-2**
M15 vs M3	136	0	**2.41E-4**
M15 vs M4	136	0	**2.41E-4**
M15 vs M5	136	0	**2.41E-4**
M15 vs M6	136	0	**2.41E-4**
M15 vs M7	136	0	**2.41E-4**
M15 vs M8	136	0	**2.41E-4**
M15 vs M9	136	0	**2.41E-4**
M15 vs M10	136	0	**2.41E-4**
M15 vs M11	136	0	**2.41E-4**
M15 vs M12	136	0	**2.41E-4**
M15 vs M13	136	0	**2.41E-4**
M15 vs M14	136	0	**2.41E-4**

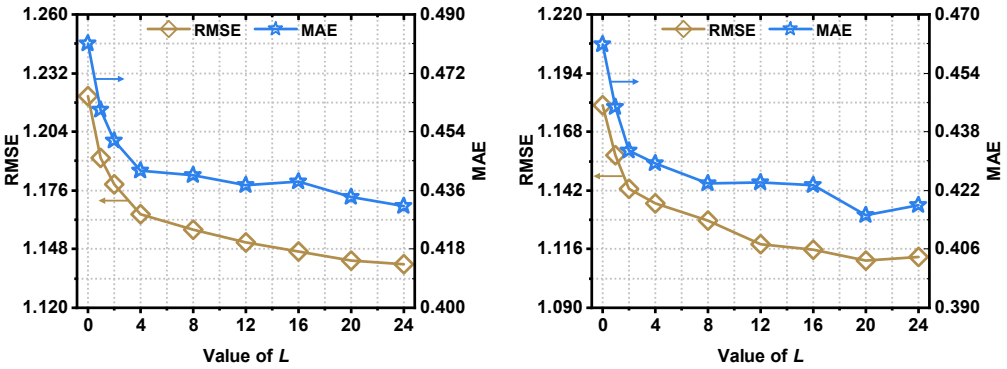
**For M15, a higher R+ value indicates a higher computational efficiency; **With the significance level of 0.1, the accepted hypotheses are highlighted.*

2. FIGURES



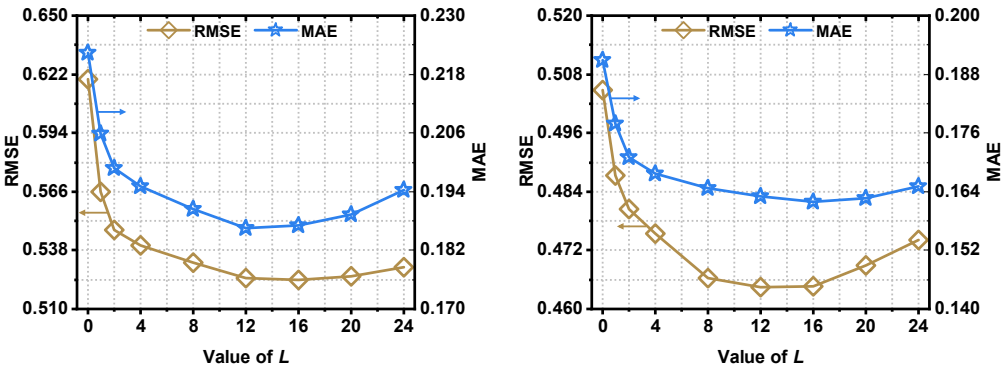
(a) Errors on D1.1

(b) Errors on D1.2



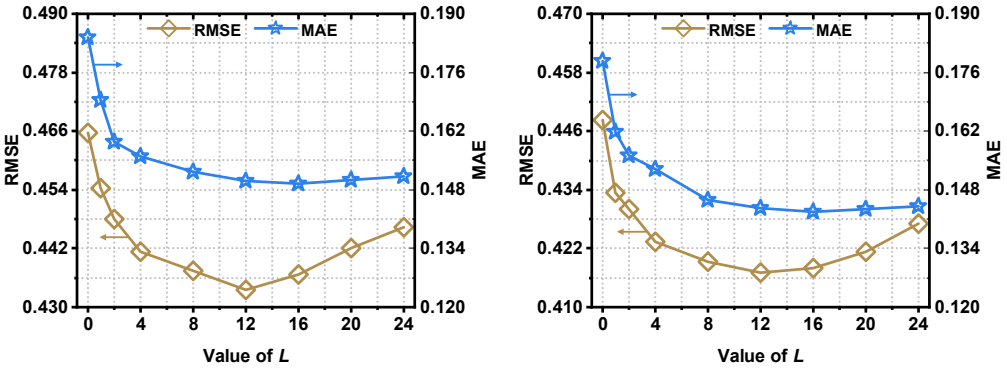
(c) Errors on D1.3

(d) Errors on D1.4



(e) Errors on D2.1

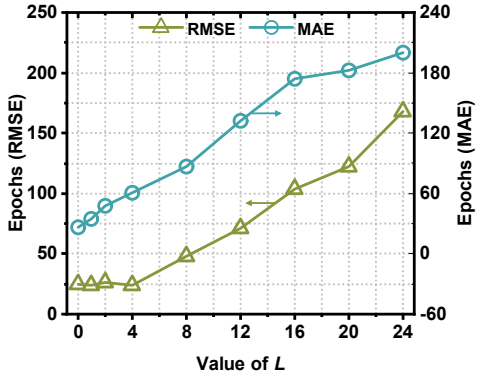
(f) Errors on D2.2



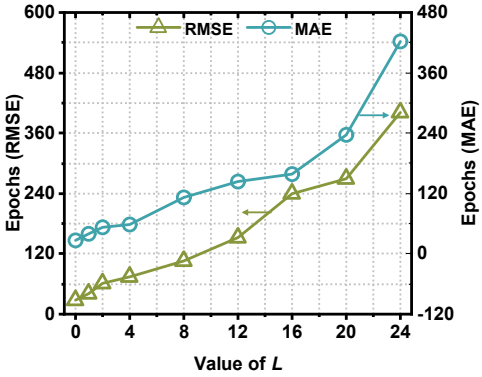
(g) Errors on D2.3

(h) Errors on D2.4

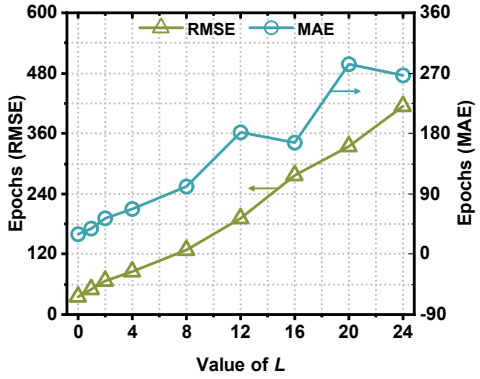
Fig. S1. Errors of TGLFA with different numbers of light graph convolutional layers on all testing cases.



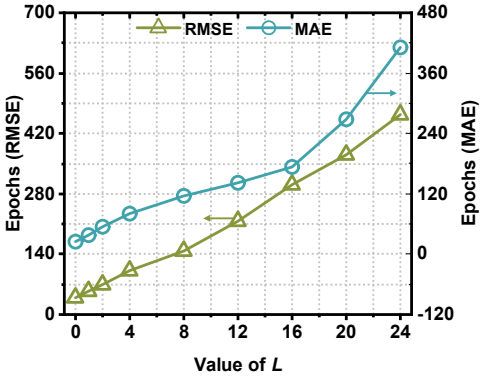
(a) Epochs on D1.1



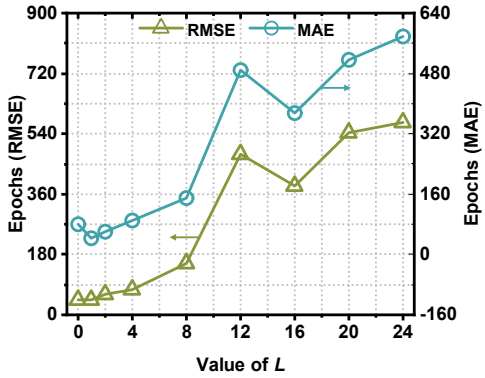
(b) Epochs on D1.2



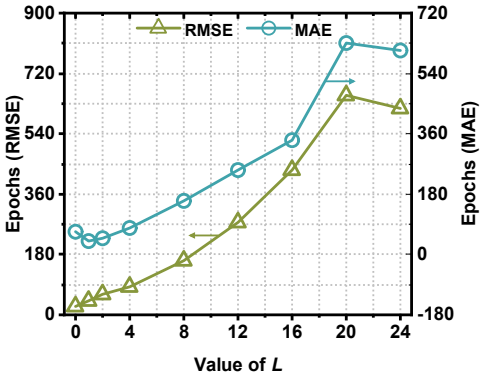
(c) Epochs on D1.3



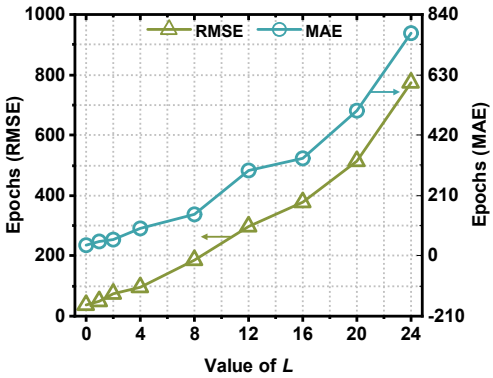
(b) Epochs on D1.4



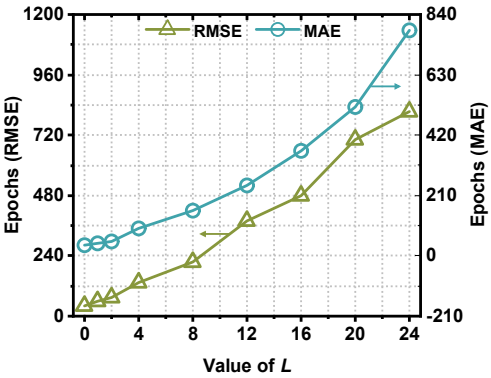
(e) Epochs on D2.1



(f) Epochs on D2.2

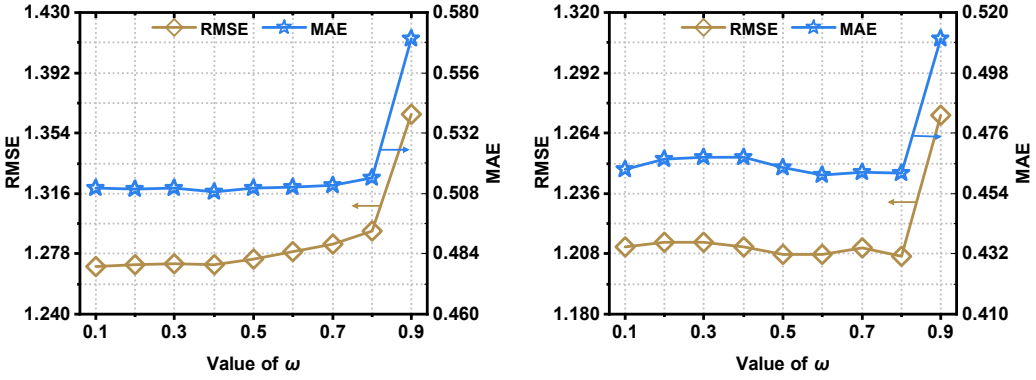


(g) Epochs on D2.3



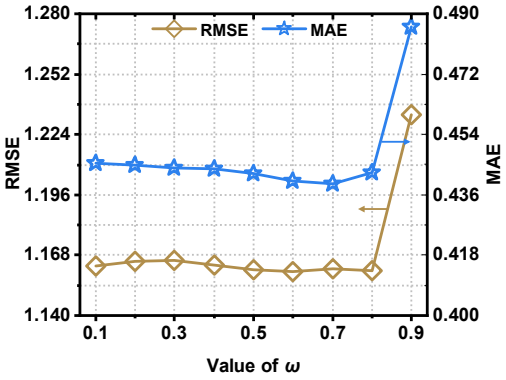
(h) Epochs on D2.4

Fig. S2. Converging epochs of TGLFA with different numbers of light graph convolutional layers on all testing cases.

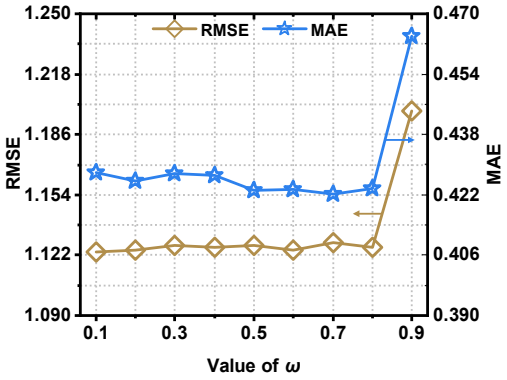


(a) Errors on D1.1

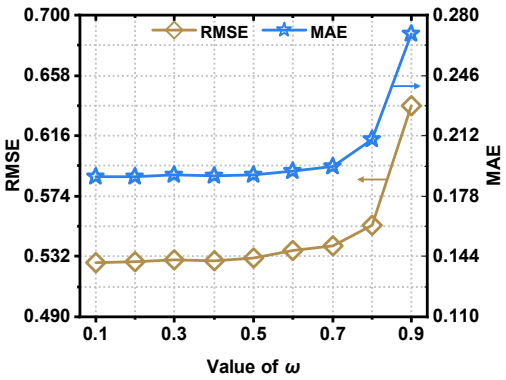
(b) Errors on D1.2



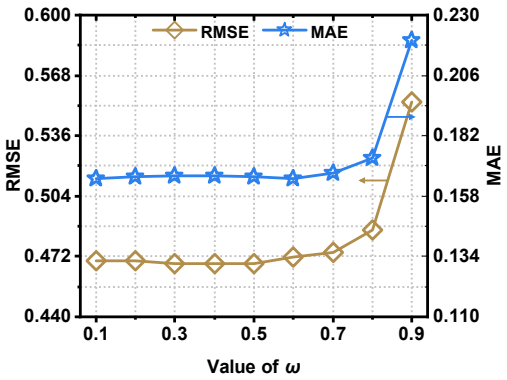
(c) Errors on D1.3



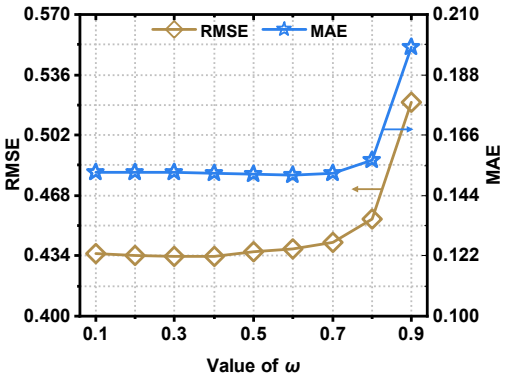
(d) Errors on D1.4



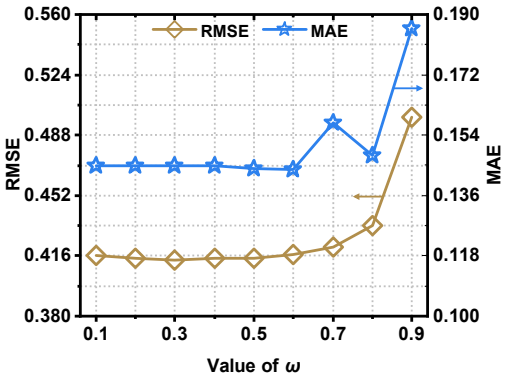
(e) Errors on D2.1



(f) Errors on D2.2

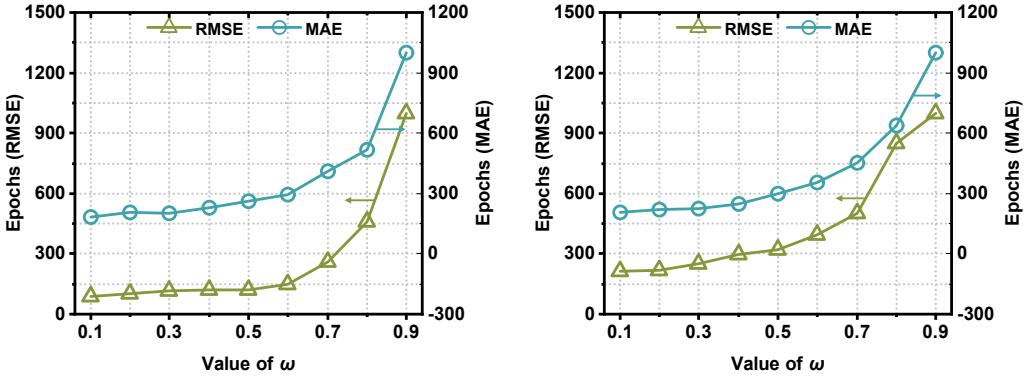


(g) Errors on D2.3

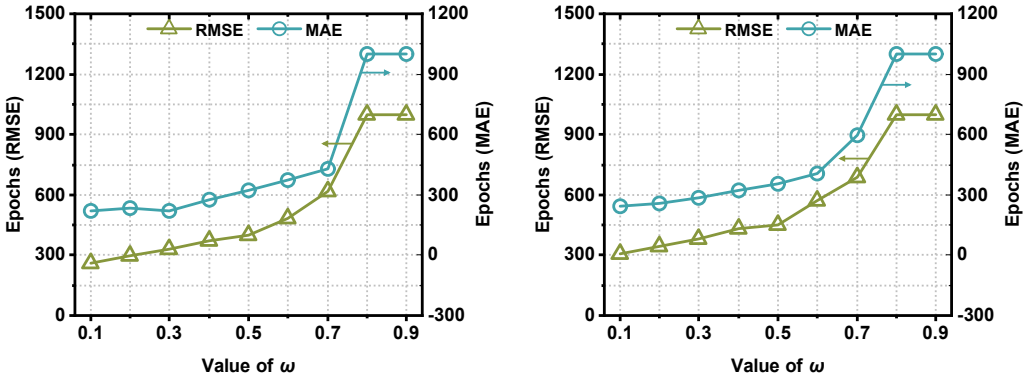


(h) Errors on D2.4

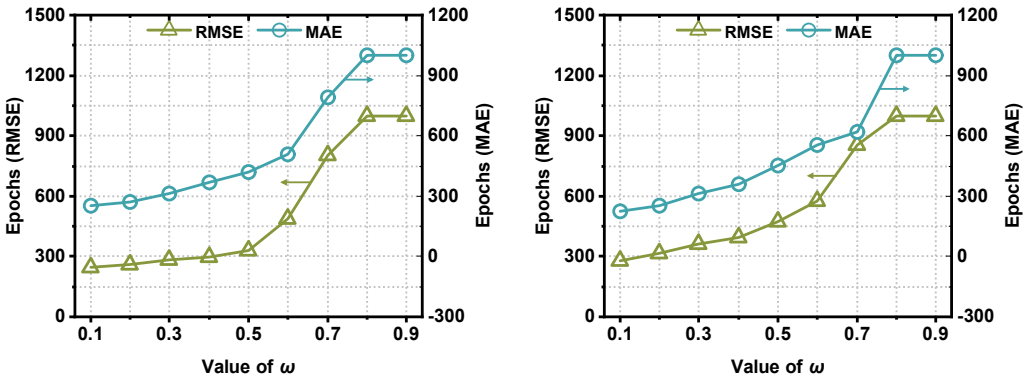
Fig. S3. Errors of TGLFA as ω varies while others being fixed on all testing cases.



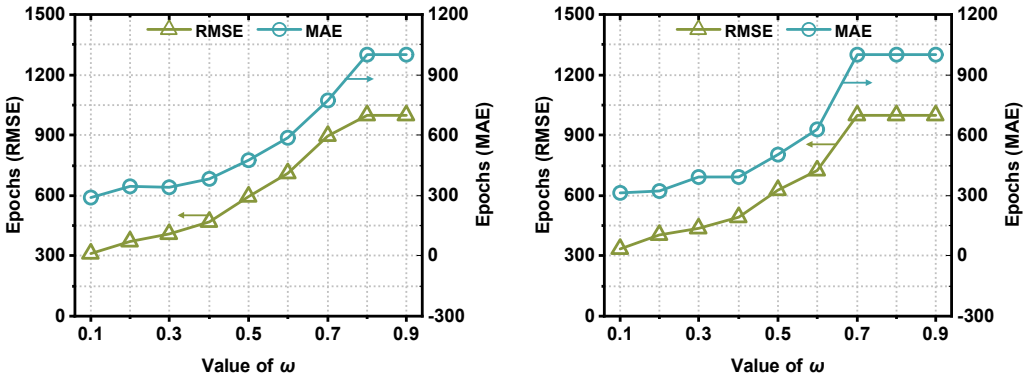
(a) Epochs on D1.1 (b) Epochs on D1.2



(c) Epochs on D1.3 (b) Epochs on D1.4

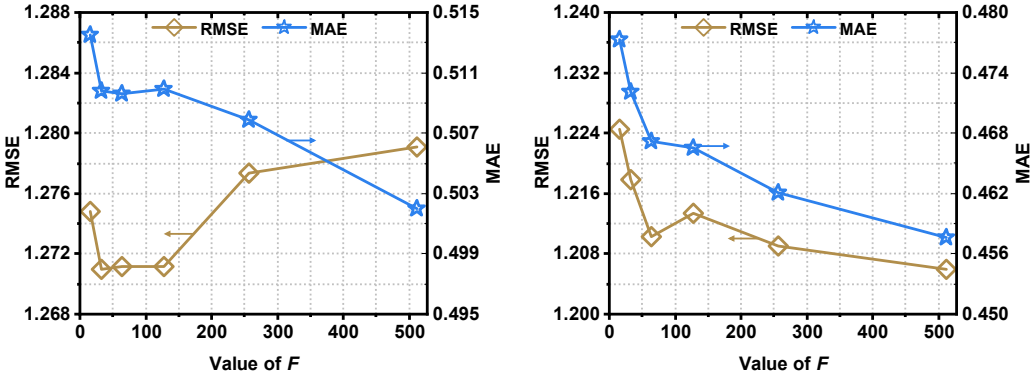


(e) Epochs on D2.1 (f) Epochs on D2.2



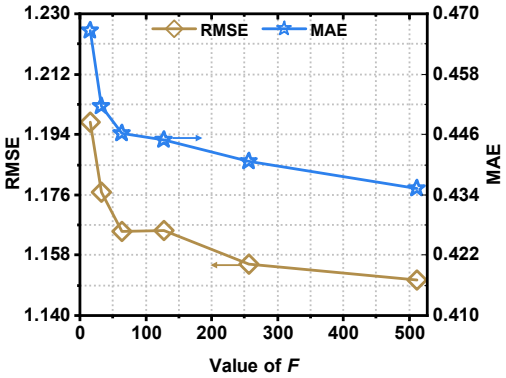
(g) Epochs on D2.3 (h) Epochs on D2.4

Fig. S4. Converging epochs of TGLFA as ω varies while others being fixed on all testing cases.

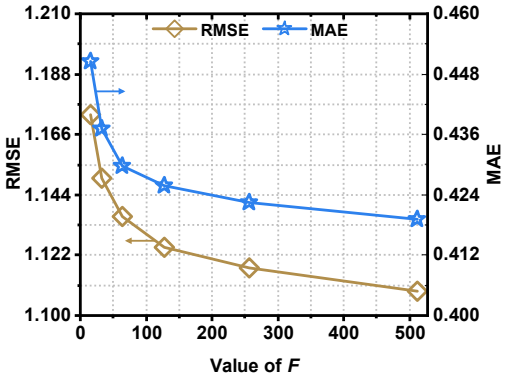


(a) Errors on D1.1

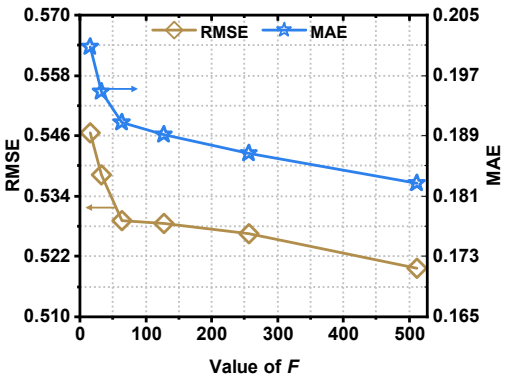
(b) Errors on D1.2



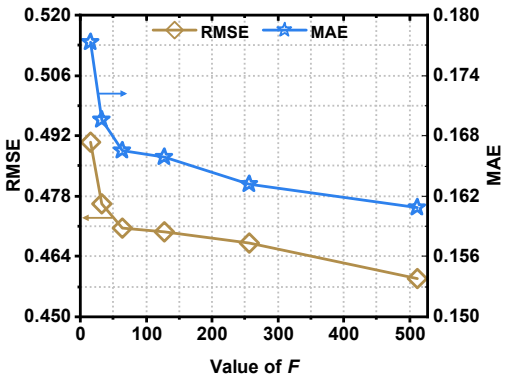
(c) Errors on D1.3



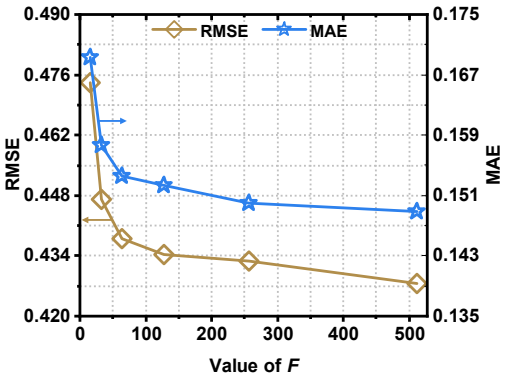
(d) Errors on D1.4



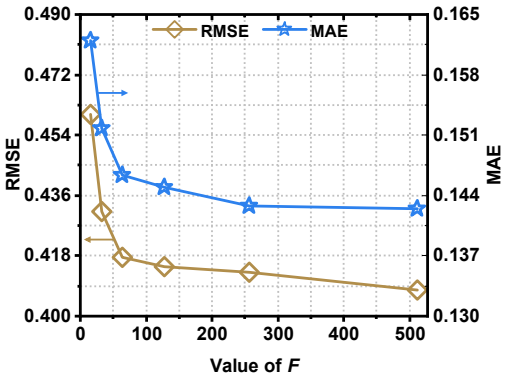
(e) Errors on D2.1



(f) Errors on D2.2

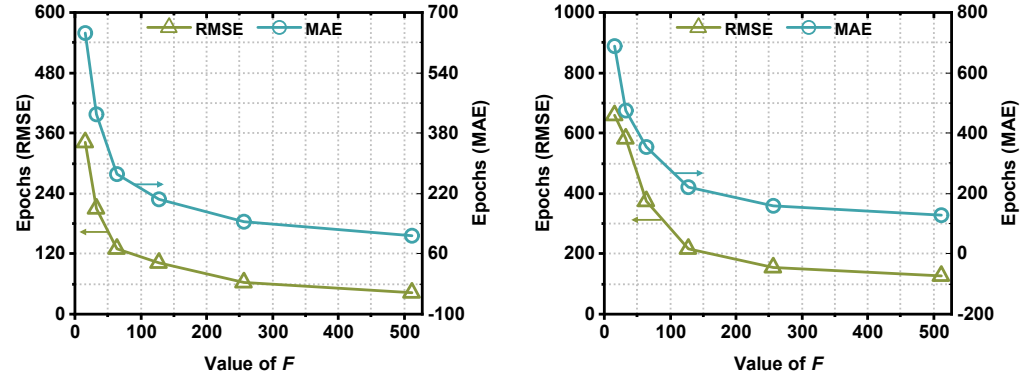


(g) Errors on D2.3



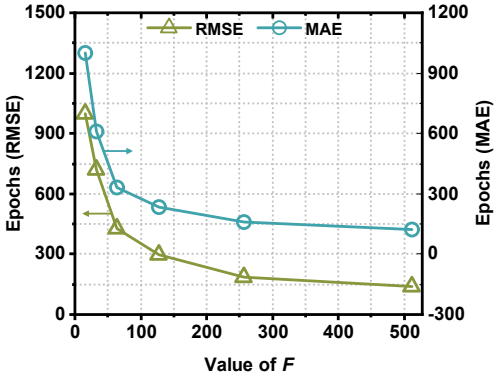
(h) Errors on D2.4

Fig. S5. Errors of TGLFA as *F* varies while others being fixed on all testing cases.

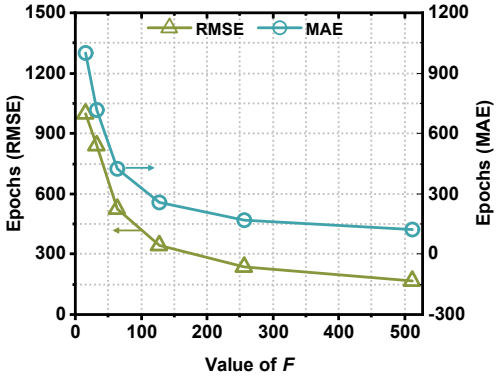


(a) Epochs on D1.1

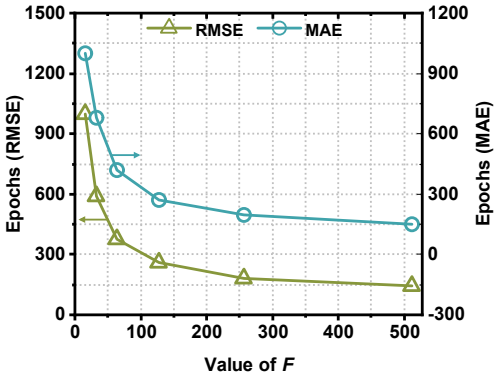
(b) Epochs on D1.2



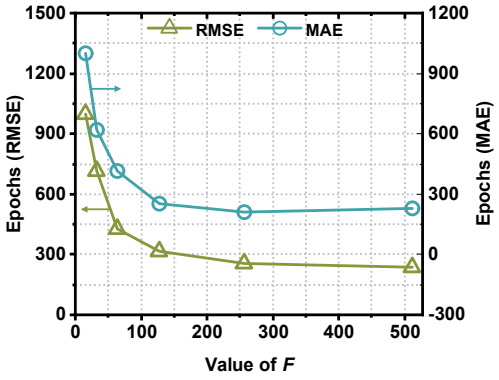
(c) Epochs on D1.3



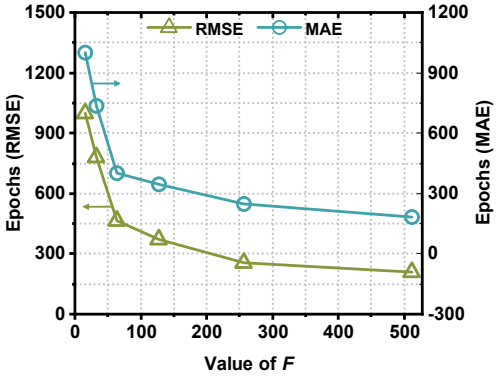
(b) Epochs on D1.4



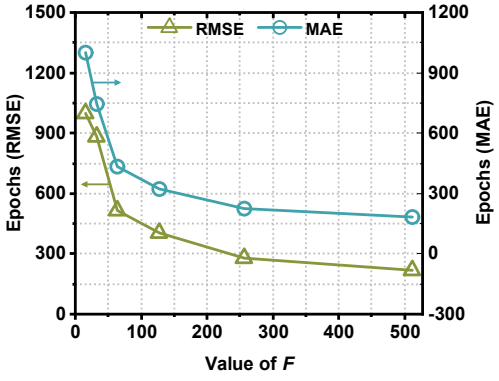
(e) Epochs on D2.1



(f) Epochs on D2.2



(g) Epochs on D2.3



(h) Epochs on D2.4

Fig. S6. Converging epochs of TGLFA as *F* varies while others being fixed on all testing cases.