1. Appendix

1.1. Data

1.2. Additional Results

1.2.1. Simulation Study

		Test MAE					
Corr	model	g1	g2	g3			
	ELN.MAE	0.034579	0.036195	0.035334			
_	RF.MAE	0.035459	0.03542	0.03554			
0.01	NN2.MAE	0.03596	0.036921	0.036305			
	NN1.MAE	0.035894	0.036834	0.036335			
	NN3.MAE	0.035816	0.036934	0.036471			
	ELN.MSE	0.034614	0.036276	0.035444			
	RF.MAE	0.035916	0.035643	0.036053			
Н	NN5.MAE	0.037009	0.03727	0.037413			
	NN4.MSE	0.037382	0.036897	0.037354			
	NN3.MAE	0.037285	0.037038	0.037193			

		Test MSE				
Corr	model	g1	g2	g3		
	ELN.MAE	0.002565	0.002688	0.002621		
_	RF.MAE	0.002643	0.00263	0.002645		
0.01	NN2.MAE	0.002679	0.002747	0.0027		
	NN1.MAE	0.002672	0.00274	0.002703		
	NN3.MAE	0.00267	0.002749	0.002718		
	ELN.MSE	0.002568	0.002698	0.00263		
	RF.MAE	0.002675	0.002644	0.002679		
\vdash	NN5.MAE	0.002774	0.002783	0.002792		
	NN3.MAE	0.002805	0.002751	0.002797		
	NN4.MSE	0.002794	0.002765	0.002775		

			g1			g2			g 3	
model	Corr	Test MAE	Test MSE	Test \mathbb{R}^2	Test MAE	Test MSE	Test \mathbb{R}^2	Test MAE	Test MSE	Test \mathbb{R}^2
	0.01	0.036678	0.002740	0.008273	0.038255	0.002880	-0.111788	0.037310	0.002795	-0.032068
LM.MSE	0.10	0.036965	0.002765	-0.011020	0.038580	0.002914	-0.142944	0.037569	0.002817	-0.054940
	1.00	0.042949	0.003414	-0.438797	0.045376	0.003717	-0.780953	0.043434	0.003469	-0.488779
LM.MAE	0.01	0.036642	0.002737	0.009050	0.038348	0.002886	-0.116369	0.037324	0.002797	-0.035162
	0.10	0.036811	0.002755	0.002919	0.038745	0.002927	-0.152580	0.037489	0.002810	-0.047675
	1.00	0.042340	0.003344	-0.393044	0.045342	0.003685	-0.769955	0.043535	0.003468	-0.544524
	0.01	0.034588	0.002566	0.140335	0.036223	0.002690	0.036877	0.035353	0.002623	0.099142
ELN.MSE	0.10	0.034563	0.002564	0.144238	0.036183	0.002686	0.037258	0.035292	0.002617	0.100241
	1.00	0.034614	0.002568	0.167184	0.036276	0.002698	0.037839	0.035444	0.002630	0.119875
	0.01	0.034579	0.002565	0.140982	0.036195	0.002688	0.039169	0.035334	0.002621	0.100442
ELN.MAE	0.10	0.034558	0.002564	0.144627	0.036173	0.002688	0.038875	0.035285	0.002617	0.100919
	1.00	0.034599	0.002567	0.167771	0.036305	0.002703	0.036583	0.035465	0.002631	0.118022
	0.01	0.035775	0.002671	0.063426	0.035718	0.002657	0.067615	0.035803	0.002661	0.070298
RF.MSE	0.10	0.035769	0.002665	0.066738	0.035684	0.002652	0.069139	0.035867	0.002670	0.062839
Iti .WISE	1.00	0.036233	0.002698	0.068774	0.035989	0.002683	0.057103	0.036213	0.002695	0.069887
	0.01	0.035459	0.002643	0.083338	0.035420	0.002630	0.087653	0.035540	0.002645	0.086529
RF.MAE	0.10	0.035515	0.002649	0.081425	0.035489	0.002634	0.083405	0.035569	0.002644	0.081643
IQI .WIZID	1.00	0.035916	0.002675	0.087081	0.035643	0.002644	0.080965	0.036053	0.002679	0.075357
	0.01	0.036452	0.002722	0.016344	0.036768	0.002732	-0.003917	0.036687	0.002738	0.009335
NN1.MSE	0.10	0.036462	0.002719	0.020422	0.036776	0.002734	-0.007259	0.036733	0.002737	0.002955
11111.1110.	1.00	0.037545	0.002821	-0.014452	0.037049	0.002764	-0.014697	0.037459	0.002798	-0.012469
	0.01	0.035960	0.002679	0.055814	0.036921	0.002747	-0.015105	0.036305	0.002700	0.039371
NN1.MAE	0.10	0.036082	0.002687	0.050698	0.037010	0.002750	-0.020562	0.036322	0.002702	0.032303
111111111111111111111111111111111111111	1.00	0.037889	0.002834	-0.043182	0.037979	0.002845	-0.084075	0.037306	0.002793	0.002178
	0.01	0.037019	0.002785	-0.021787	0.037320	0.002775	-0.043354	0.037089	0.002774	-0.017304
NN2.MSE	0.10	0.036977	0.002765	-0.021276	0.037009	0.002748	-0.027538	0.036990	0.002758	-0.020645
	1.00	0.037536	0.002814	-0.013978	0.036903	0.002752	-0.005866	0.037516	0.002809	-0.016934
	0.01	0.035894	0.002672	0.057743	0.036834	0.002740	-0.007158	0.036335	0.002703	0.036305
NN2.MAE	0.10	0.035890	0.002668	0.060310	0.036937	0.002750	-0.017077	0.036270	0.002696	0.037157
	1.00	0.037480	0.002814	-0.009529	0.037715	0.002823	-0.065390	0.037471	0.002804	-0.010118
	0.01	0.036783	0.002757	-0.006762	0.036840	0.002738	-0.007525	0.037036	0.002764	-0.020078
NN3.MSE	0.10	0.036938	0.002761	-0.015399	0.036852	0.002738	-0.015106	0.036874	0.002757	-0.004406
	1.00	0.037424	0.002808	-0.012964	0.036938	0.002754	-0.006353	0.037420	0.002799	-0.010348
	0.01	0.035816	0.002670	0.065432	0.036934	0.002749	-0.016398	0.036471	0.002718	0.029948
NN3.MAE	0.10	0.035893	0.002677	0.062002	0.036859	0.002741	-0.011850	0.036200	0.002693	0.040611
ININO.IVIAE	1.00	0.037009	0.002774	0.021329	0.037270	0.002783	-0.029644	0.037413	0.002792	-0.008307
<u> </u>	0.01	0.036881	0.002759	-0.020620	0.036856	0.002742	-0.007715	0.037126	0.002775	-0.026563
NN4.MSE	0.10	0.036877	0.002761	-0.014579	0.037221	0.002762	-0.048711	0.036872	0.002748	-0.008894
MM4.MSE	1.00	0.037382	0.002805	-0.006481	0.036897	0.002751	-0.005369	0.037354	0.002797	-0.007739
	0.01	0.035935	0.002678	0.057720	0.036897	0.002749	-0.010917	0.036708	0.002738	0.007046
NN4.MAE	0.10	0.035828	0.002665	0.065041	0.036933	0.002749	-0.019112	0.036273	0.002695	0.037704
	1.00	0.037095	0.002779	0.019866	0.037323	0.002795	-0.029377	0.037301	0.002787	-0.001888

		g1			g2			g3		
model	Corr	Test MAE	Test MSE	Test \mathbb{R}^2	Test MAE	Test MSE	Test \mathbb{R}^2	Test MAE	Test MSE	Test \mathbb{R}^2
	0.01	0.037231	0.002785	-0.049970	0.036931	0.002747	-0.017002	0.037114	0.002772	-0.021895
NN5.MSE	0.10	0.037026	0.002767	-0.032190	0.037176	0.002762	-0.039436	0.036909	0.002757	-0.011352
	1.00	0.037364	0.002795	-0.010495	0.036928	0.002755	-0.005376	0.037475	0.002807	-0.014974
	0.01	0.035888	0.002669	0.058579	0.036835	0.002738	-0.008646	0.036685	0.002737	0.004643
NN5.MAE	0.10	0.036038	0.002680	0.050976	0.036745	0.002727	-0.004935	0.036484	0.002710	0.018192
	1.00	0.037285	0.002794	0.002541	0.037038	0.002765	-0.012729	0.037193	0.002775	0.002572
	0.01	0.037296	0.002798	-0.043289	0.037227	0.002776	-0.044764	0.037591	0.002818	-0.062516
LSTM.MSE	0.10	0.037237	0.002795	-0.031955	0.037134	0.002767	-0.038255	0.037198	0.002785	-0.030394
	1.00	0.038128	0.002851	-0.082027	0.037382	0.002792	-0.044243	0.037780	0.002830	-0.044330
	0.01	0.037431	0.002805	-0.056406	0.037337	0.002780	-0.051854	0.037627	0.002817	-0.067433
LSTM.MAE	0.10	0.037446	0.002804	-0.062952	0.037118	0.002768	-0.032544	0.037241	0.002793	-0.033320
	1.00	0.038027	0.002846	-0.061483	0.037415	0.002790	-0.045506	0.037743	0.002825	-0.045884
	0.01	0.038277	0.002882	-0.132672	0.038460	0.002889	-0.147390	0.042466	0.003311	-0.486145
FFORMA.MSE	0.10	0.038358	0.002895	-0.140765	0.038479	0.002891	-0.160062	0.042323	0.003291	-0.473991
	1.00	0.038875	0.002965	-0.131239	0.038808	0.002933	-0.165990	0.043013	0.003371	-0.470954
	0.01	0.038755	0.002939	-0.179748	0.038747	0.002918	-0.174094	0.042989	0.003365	-0.527909
FFORMA.MAE	0.10	0.038936	0.002951	-0.192793	0.038796	0.002946	-0.175994	0.043097	0.003406	-0.586375
110101111111111111111111111111111111111	1.00	0.039247	0.002972	-0.163656	0.039387	0.002996	-0.211619	0.043709	0.003448	-0.526081
	0.01	0.038299	0.002900	-0.128930	0.038489	0.002912	-0.132518	0.039390	0.003016	-0.204980
DeepAR	0.10	0.038832	0.002935	-0.181663	0.038435	0.002905	-0.131874	0.039177	0.002993	-0.190558
F	1.00	0.040535	0.003159	-0.239142	0.038787	0.002952	-0.144029	0.039692	0.003042	-0.182365

References