

Рис. 1: Accelerometry time series from HASC project Target time series HASC1001

Data	Models	MAPE target	MAPE full	AIC
1	VAR	1120304570816.356	1120304570816.356	6907.577
	SVR	1.214	1.214	538.965
	Neural network	0.661	0.661	465.974
2	VAR	6039408138201.831	6039408138201.831	7206.588
	SVR	1.337	1.337	488.377
	Neural network	1.279	1.279	514.971
3	VAR	6988686166.756	6988686166.756	5851.561
	SVR	0.289	0.289	217.969
	Neural network	0.428	0.428	318.439
4	VAR	1690270546.666	1690270546.666	5453.202
	SVR	0.695	0.695	461.662
	Neural network	0.767	0.767	505.080
5	VAR	417246658469.861	417246658469.861	6717.623
	SVR	0.533	0.533	338.911
	Neural network	0.630	0.630	392.916
6	VAR	1795670105962.151	1795670105962.151	7102.525
	SVR	0.785	0.785	458.761
	Neural network	0.664	0.664	463.748
7	VAR	760658400670.849	760658400670.849	6840.654
	SVR	0.810	0.810	486.241
	Neural network	0.931	0.931	546.321
8	VAR	122095954208.764	122095954208.764	6485.710
	SVR	0.808	0.808	494.041
	Neural network	0.705	0.705	514.873
9	VAR	870930402818.931	870930402818.931	6866.990

	SVR	0.738	0.738	439.700
	Neural network	0.698	0.698	468.527
10	VAR	2257879192407.105	2257879192407.105	7146.840
	SVR	1.095	1.095	473.892
	Neural network	1.035	1.035	547.795
11	VAR	722974585332.060	722974585332.060	6975.583
	SVR	0.472	0.472	524.962
	Neural network	0.586	0.586	594.106
12	VAR	134915153696.328	134915153696.328	6465.315
	SVR	0.662	0.662	492.203
	Neural network	0.906	0.906	552.600
13	VAR	259584915183.095	259584915183.095	6691.148
	SVR	0.695	0.695	425.604
	Neural network	0.765	0.765	477.582
14	VAR	28562396677.239	28562396677.239	6198.002
	SVR	0.649	0.649	540.584
	Neural network	0.551	0.551	540.832
15	VAR	32954861541.872	32954861541.872	6059.772
	SVR	0.962	0.962	503.383
	Neural network	0.783	0.783	499.527
16	VAR	13156158543201.650	13156158543201.650	7469.809
	SVR	1.641	1.641	445.430
	Neural network	1.053	1.053	411.494
17	VAR	204113750894.582	204113750894.582	6435.257
	SVR	1.943	1.943	496.190
	Neural network	1.276	1.276	524.516
18	VAR	5068127216048.081	5068127216048.081	7109.426
	SVR	1.927	1.927	493.345
	Neural network	1.948	1.948	540.622
19	VAR	32876731920963232.000	32876731920963232.000	2843.012
	SVR	0.847	0.847	445.210
	Neural network	0.699	0.699	432.327
20	VAR	33062597757652932.000	33062597757652932.000	2833.969
	SVR	0.932	0.932	435.596
	Neural network	0.138	0.138	337.222
21	VAR	3546260314784630.000	3546260314784630.000	1690.481
	SVR	0.283	0.283	397.450
	Neural network	0.375	0.375	407.805
22	VAR	20232478839226940.000	20232478839226940.000	1749.881
	SVR	0.210	0.210	384.824
	Neural network	0.256	0.256	391.737
23	VAR	9239926680388686.000	9239926680388686.000	1735.756

	SVR	0.176	0.176	394.862
	Neural network	0.219	0.219	404.739
24	VAR	1313981263100460.700	1313981263100460.700	1662.323
	SVR	0.257	0.257	403.547
	Neural network	0.319	0.319	408.984
25	VAR	2069304322706104.700	2069304322706104.700	1677.398
	SVR	0.281	0.281	400.797
	Neural network	0.323	0.323	408.007
26	VAR	13795457076978750.000	13795457076978750.000	1732.355
	SVR	0.315	0.315	398.966
	Neural network	0.735	0.735	428.075
27	VAR	2469829022196093.500	2469829022196093.500	1681.779
	SVR	0.300	0.300	402.176
	Neural network	0.249	0.249	396.151
28	VAR	5978082549783731.000	5978082549783731.000	1719.743
	SVR	0.248	0.248	407.195
	Neural network	0.450	0.450	427.467
29	VAR	4097900730587129.000	4097900730587129.000	1739.159
	SVR	0.199	0.199	410.548
	Neural network	0.113	0.113	378.580
30	VAR	102062068921590260.000	102062068921590260.000	1850.206
	SVR	0.348	0.348	405.777
	Neural network	0.473	0.473	421.186
31	VAR	944078123779268740.000	944078123779268740.000	1932.571
	SVR	0.169	0.169	384.956
	Neural network	0.292	0.292	404.421
32	VAR	111357584338780590.000	111357584338780590.000	1860.089
	SVR	0.144	0.144	383.413
	Neural network	0.226	0.226	398.816
33	VAR	16976855728563968.000	16976855728563968.000	1788.319
	SVR	0.138	0.138	389.323
	Neural network	0.110	0.110	371.847
34	VAR	25511822208236780.000	25511822208236780.000	1764.769
	SVR	0.315	0.315	408.234
	Neural network	0.391	0.391	414.318
35	VAR	204791457966511140.000	204791457966511140.000	1827.957
	SVR	0.391	0.391	403.998
	Neural network	0.318	0.318	395.923
36	VAR	24687961790276116.000	24687961790276116.000	1755.140
	SVR	0.540	0.540	409.002
	Neural network	1.146	1.146	432.234
37	VAR	Inf	Inf	1752.454

	SVR	NaN	NaN	440.867
	Neural network	Inf	Inf	418.055
38	VAR	18111287948275848.000	18111287948275848.000	1741.611
	SVR	0.269	0.269	394.542
	Neural network	0.467	0.467	410.864
39	VAR	1233301332725942.200	1233301332725942.200	1653.853
	SVR	0.269	0.269	396.851
	Neural network	0.512	0.512	423.198
40	VAR	19446051632025556.000	19446051632025556.000	1753.934
	SVR	0.276	0.276	402.672
	Neural network	0.445	0.445	417.093
41	VAR	42277223647839136.000	42277223647839136.000	1771.458
	SVR	0.182	0.182	379.808
	Neural network	0.323	0.323	399.110
42	VAR	398852741185396740.000	398852741185396740.000	1853.649
	SVR	0.375	0.375	401.497
	Neural network	0.499	0.499	418.491
43	VAR	Inf	Inf	1769.162
	SVR	Inf	Inf	415.065
	Neural network	Inf	Inf	424.767

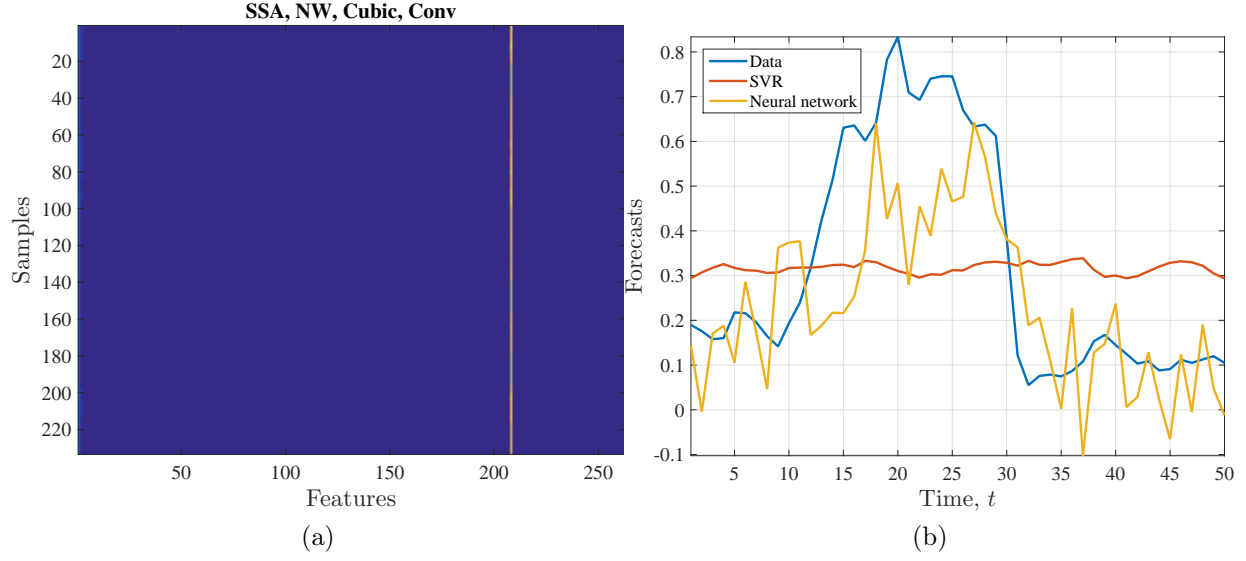


Рис. 2: (a) Feature generation results for HASC1001. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1001. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

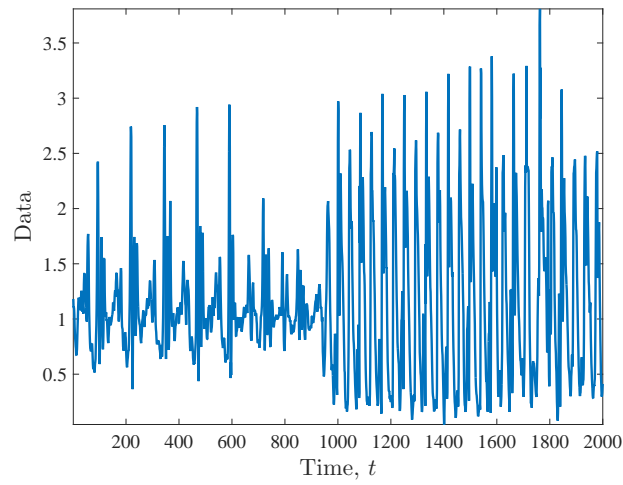


Рис. 3: Accelerometry time series from HASC project Target time series HASC1002

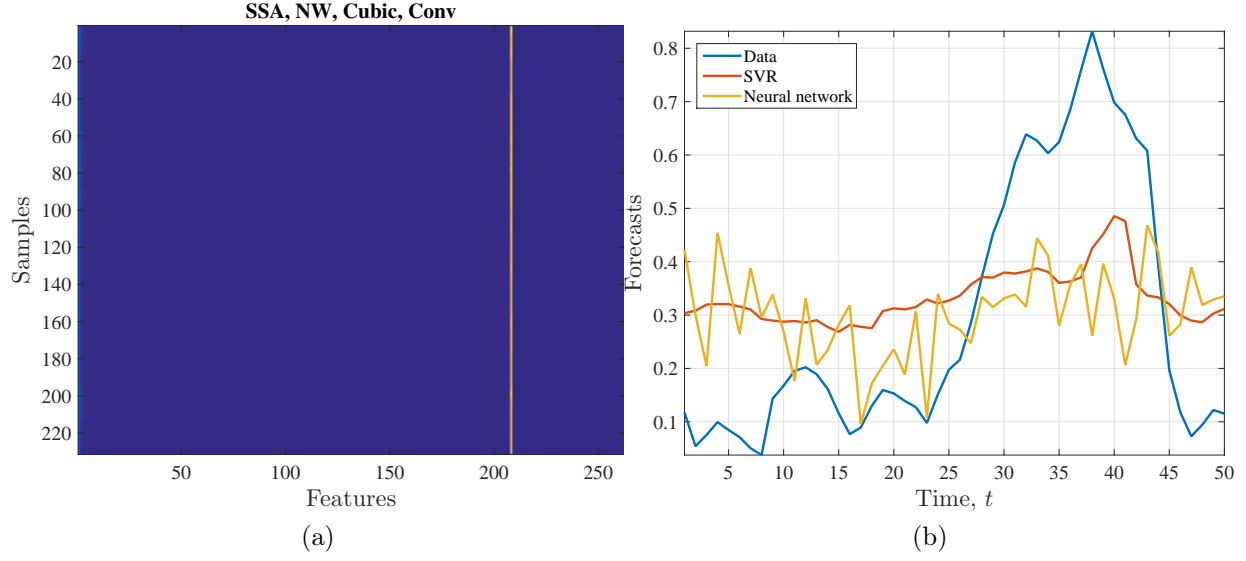


Рис. 4: (a) Feature generation results for HASC1002. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1002. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

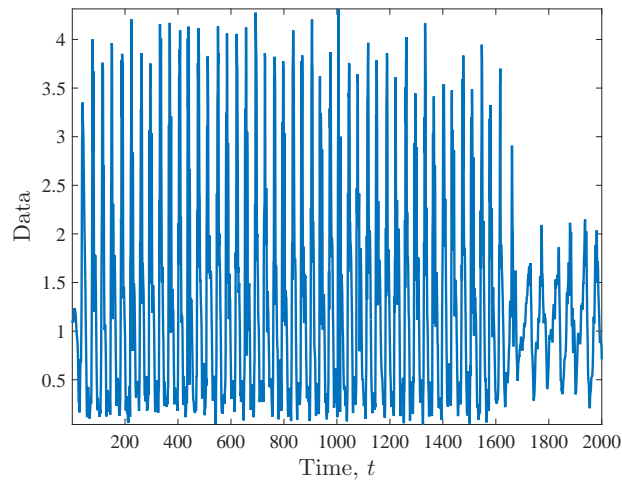


Рис. 5: Accelerometry time series from HASC project Target time series HASC1003

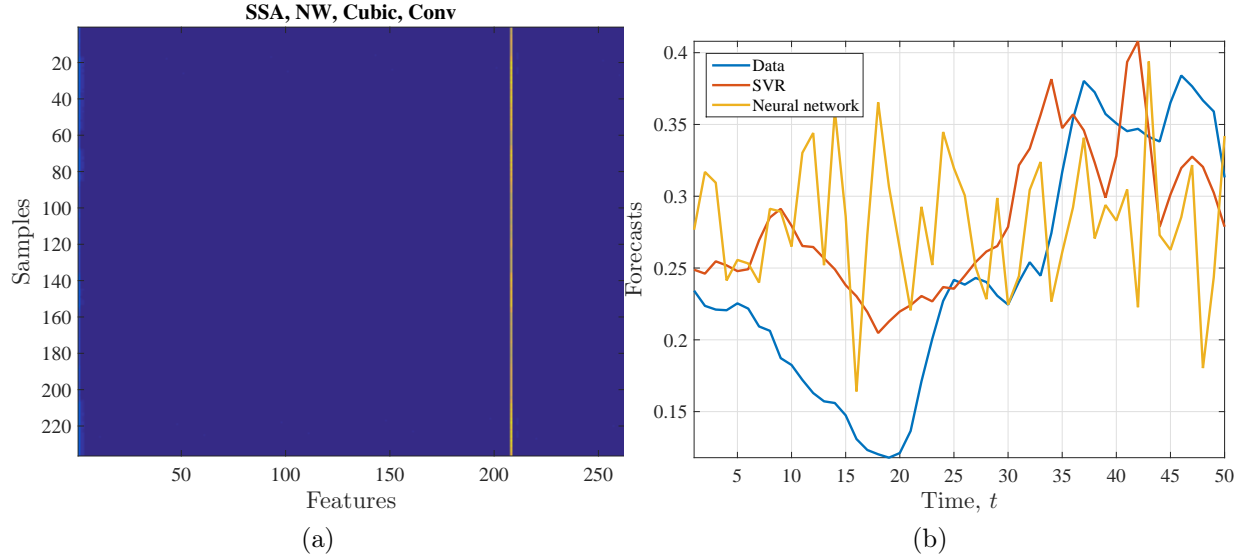


Рис. 6: (a) Feature generation results for HASC1003. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1003. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

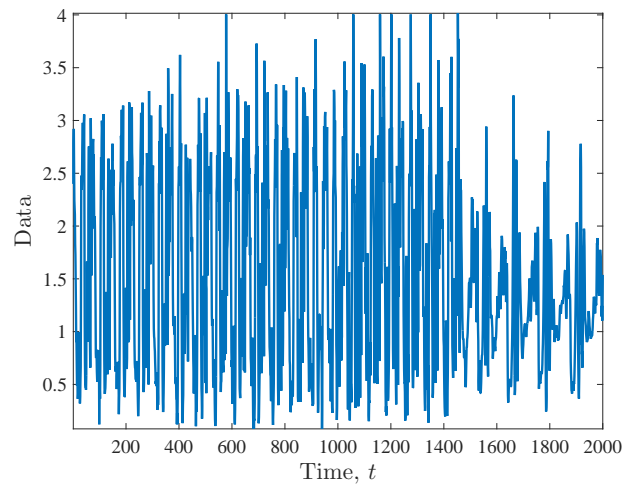


Рис. 7: Accelerometry time series from HASC project Target time series HASC1004

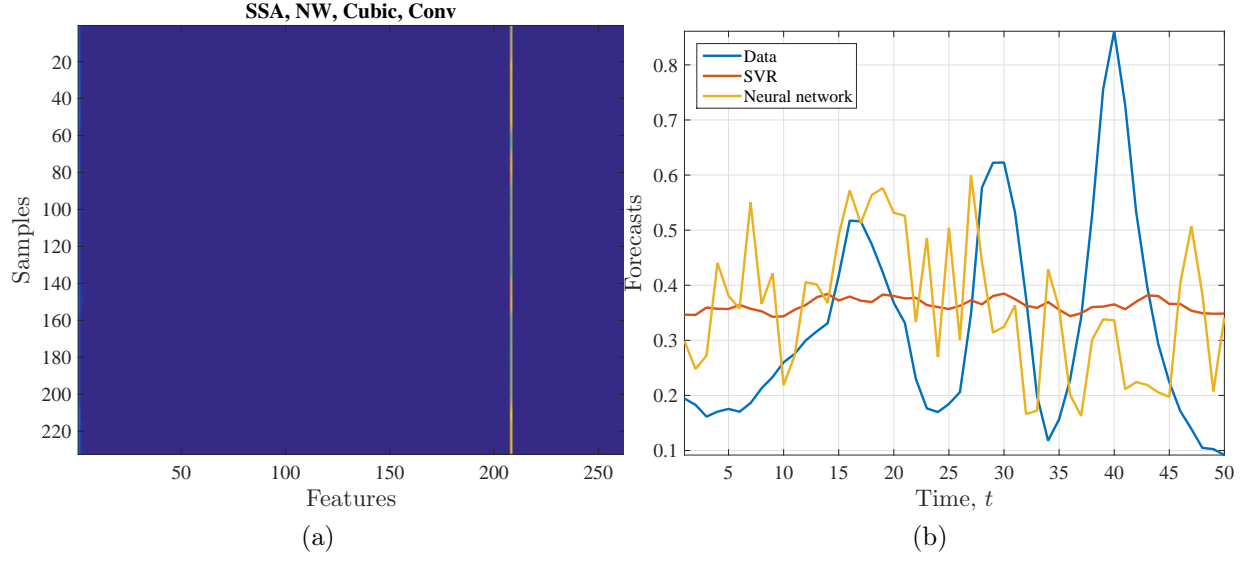


Рис. 8: (a) Feature generation results for HASC1004. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1004. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

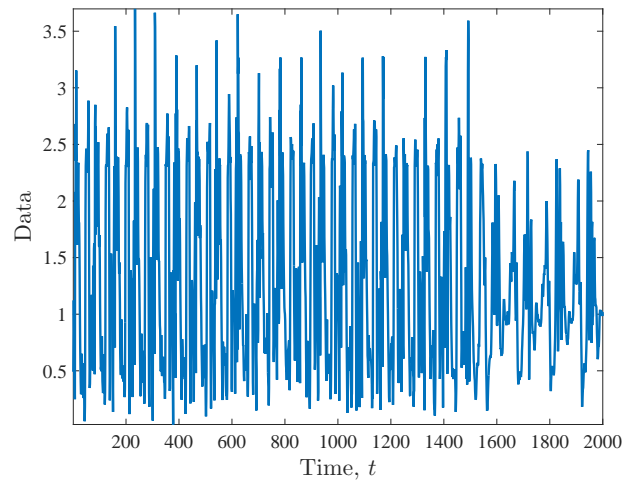


Рис. 9: Accelerometry time series from HASC project Target time series HASC1005

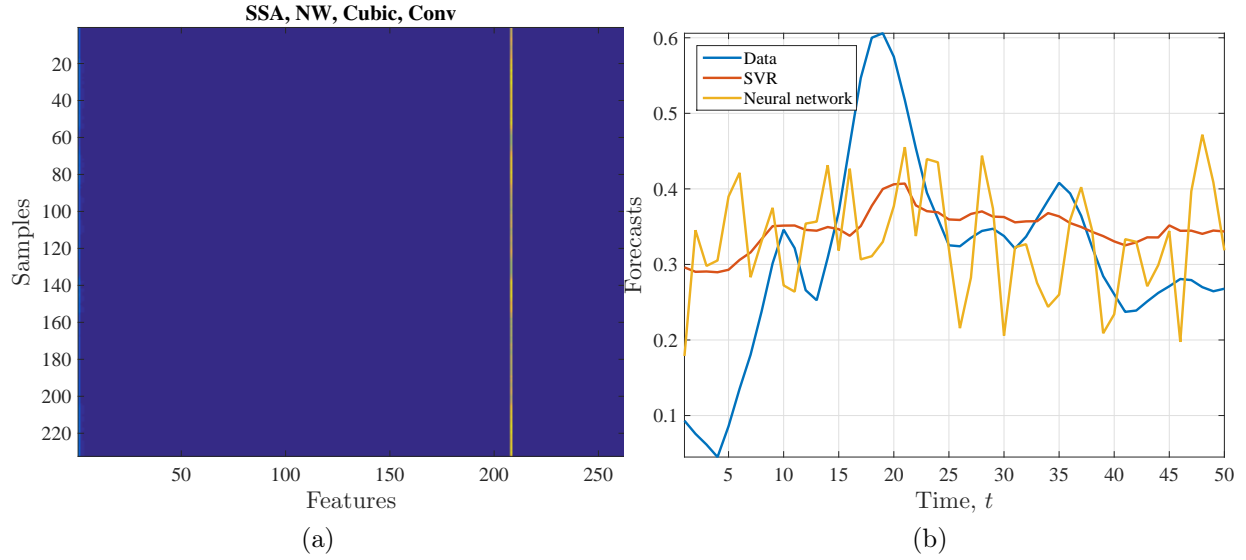


Рис. 10: (a) Feature generation results for HASC1005. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1005. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

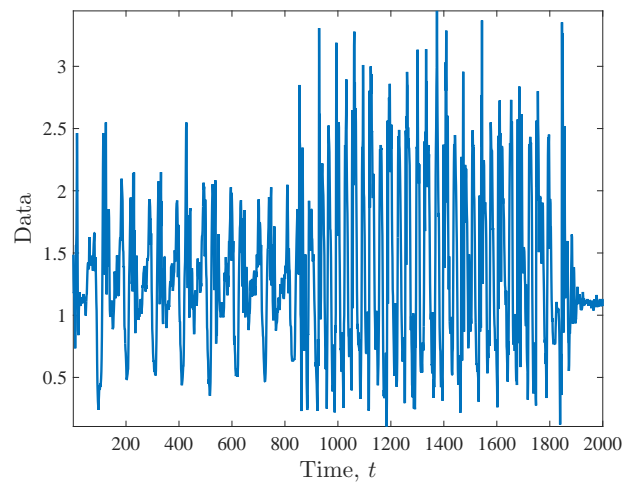


Рис. 11: Accelerometry time series from HASC project Target time series HASC1006

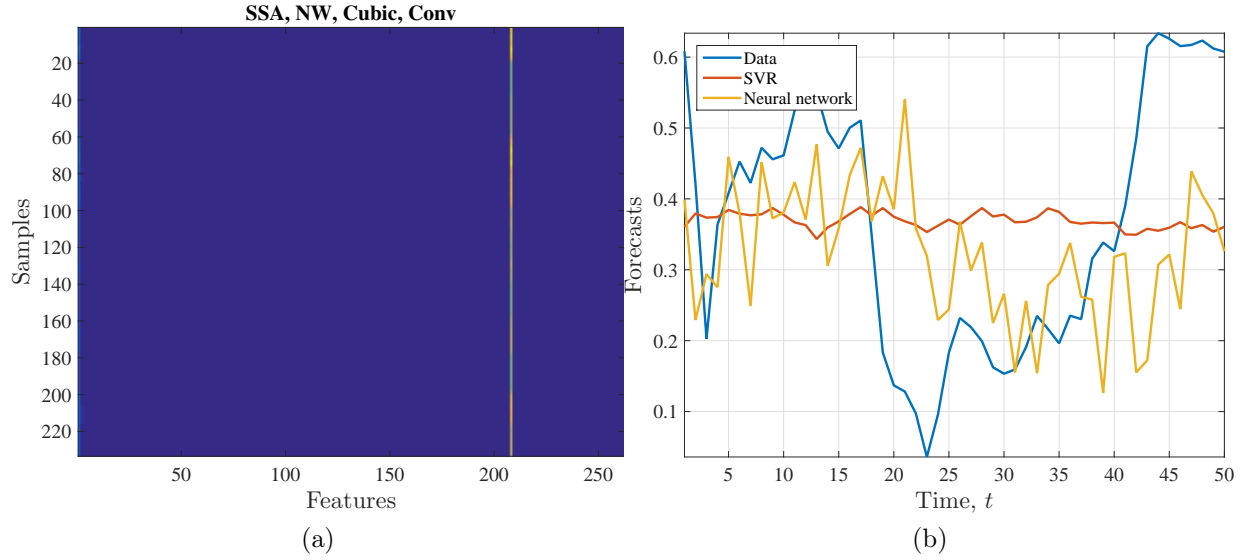


Рис. 12: (a) Feature generation results for HASC1006. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1006. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

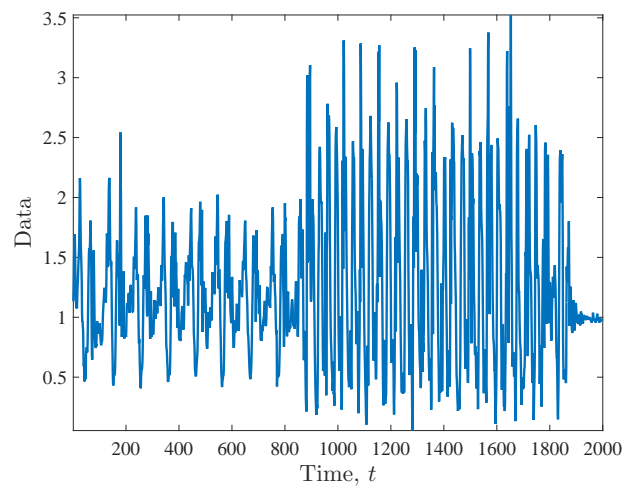


Рис. 13: Accelerometry time series from HASC project Target time series HASC1007

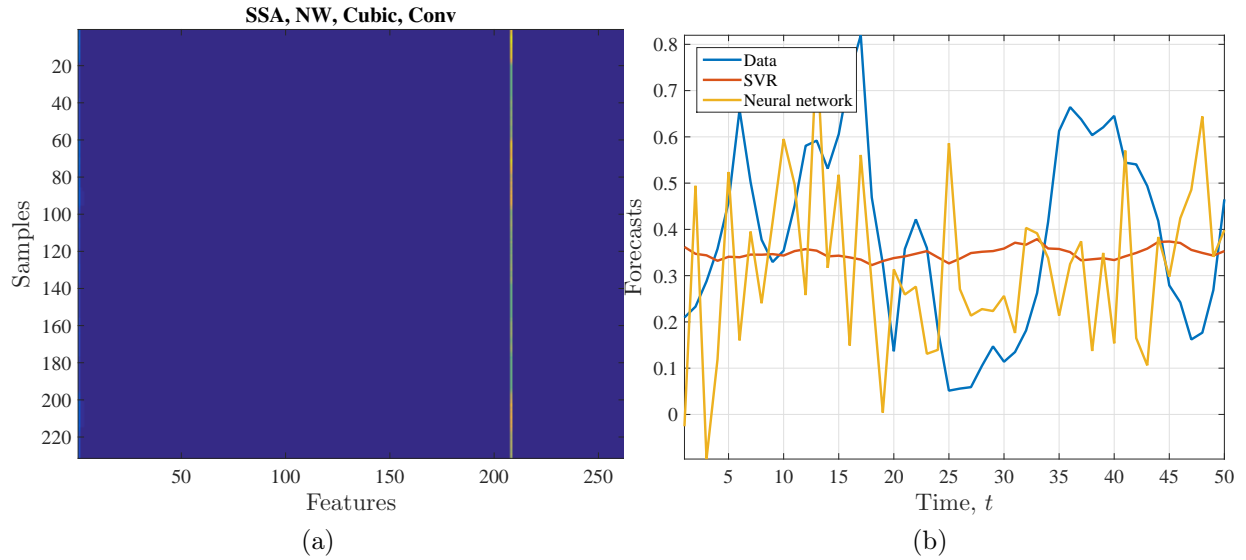


Рис. 14: (a) Feature generation results for HASC1007. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1007. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

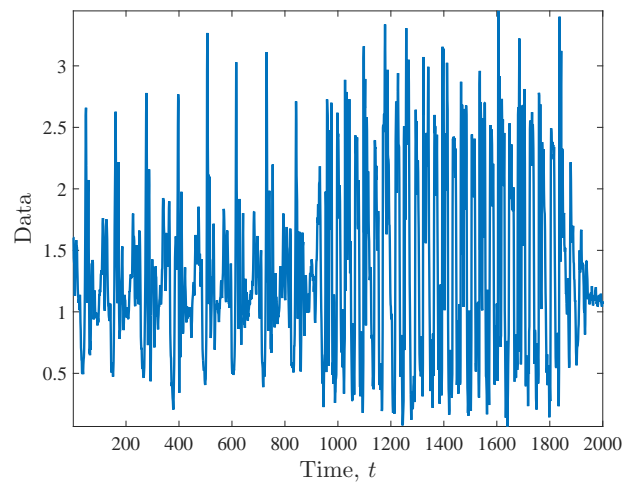


Рис. 15: Accelerometry time series from HASC project Target time series HASC1008

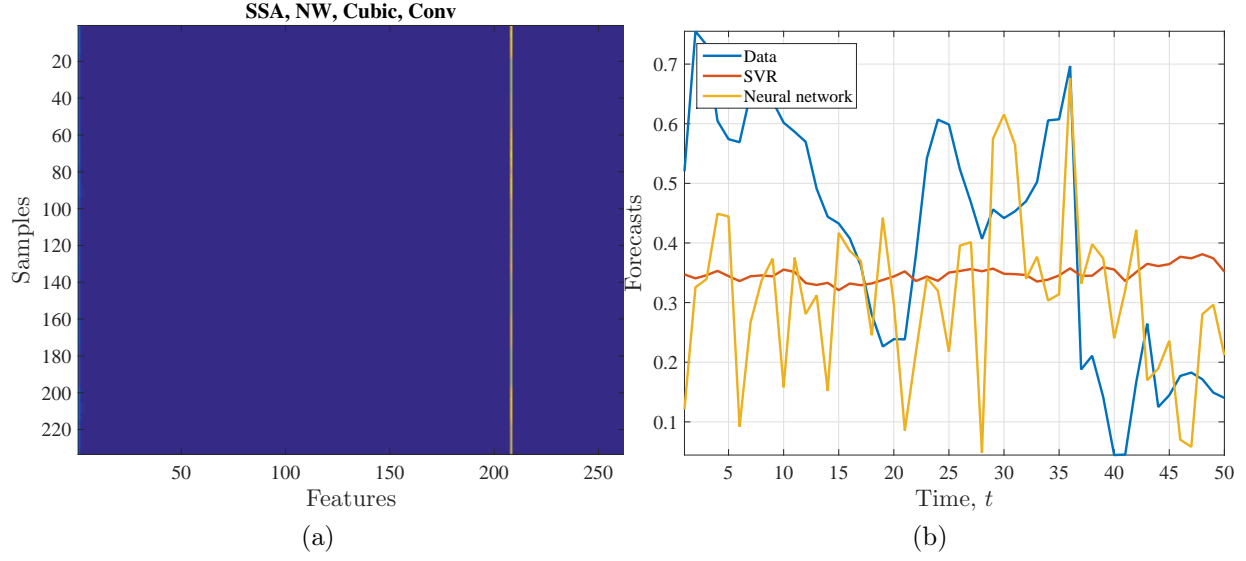


Рис. 16: (a) Feature generation results for HASC1008. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1008. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

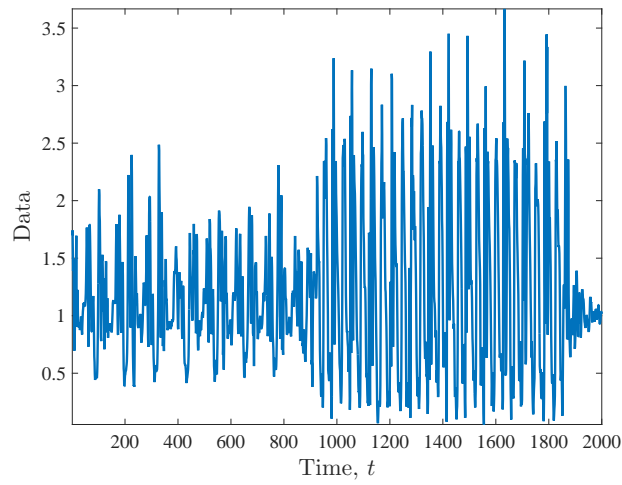


Рис. 17: Accelerometry time series from HASC project Target time series HASC1009

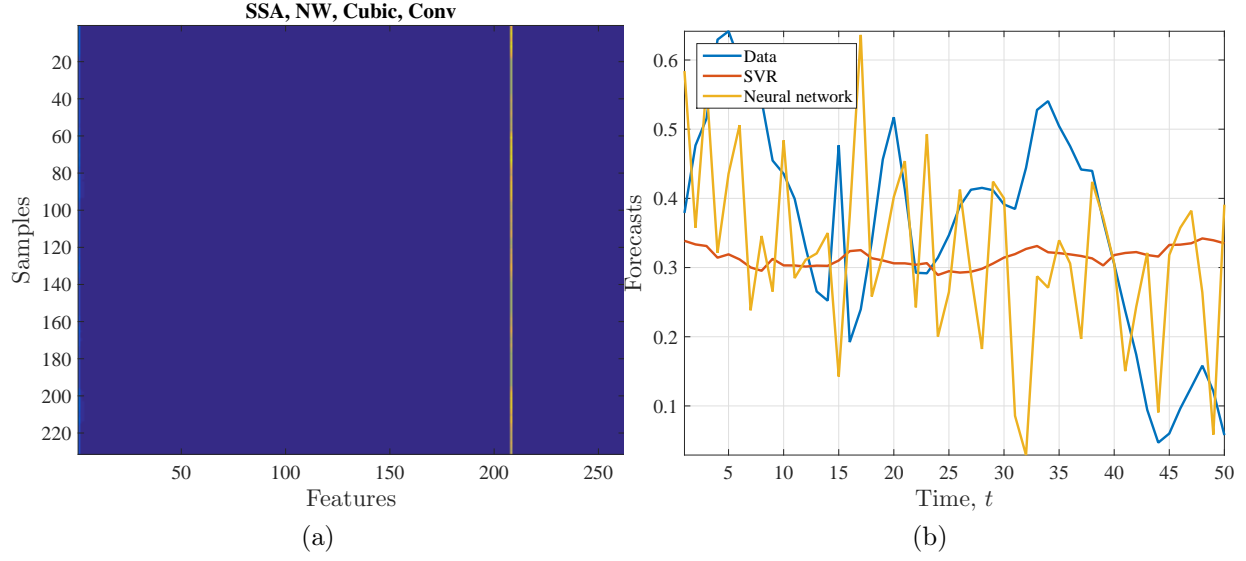


Рис. 18: (a) Feature generation results for HASC1009. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1009. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

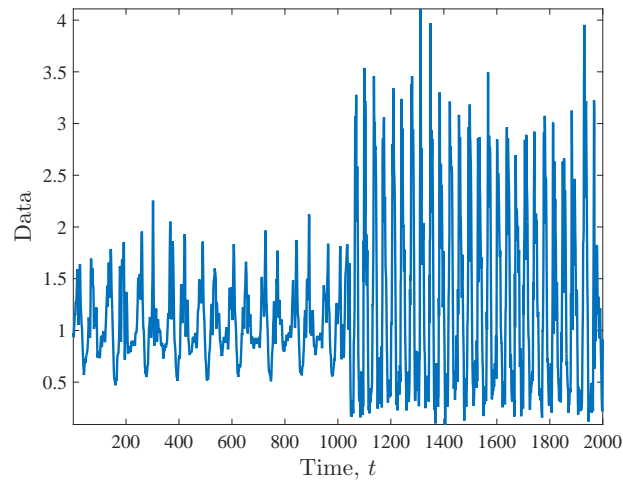


Рис. 19: Accelerometry time series from HASC project Target time series HASC1010

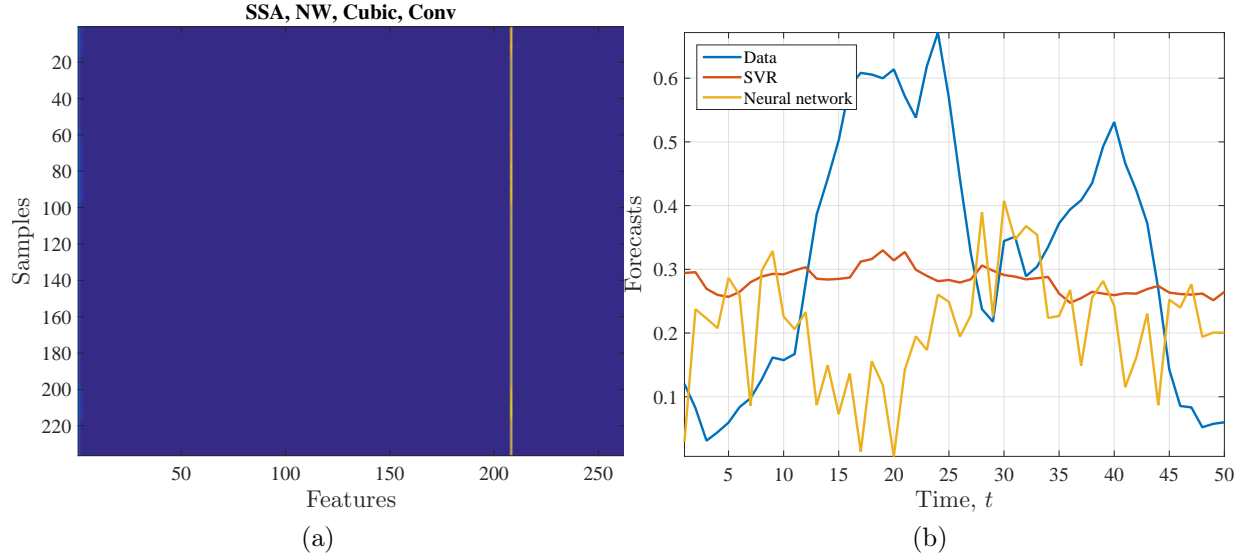


Рис. 20: (a) Feature generation results for HASC1010. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1010. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

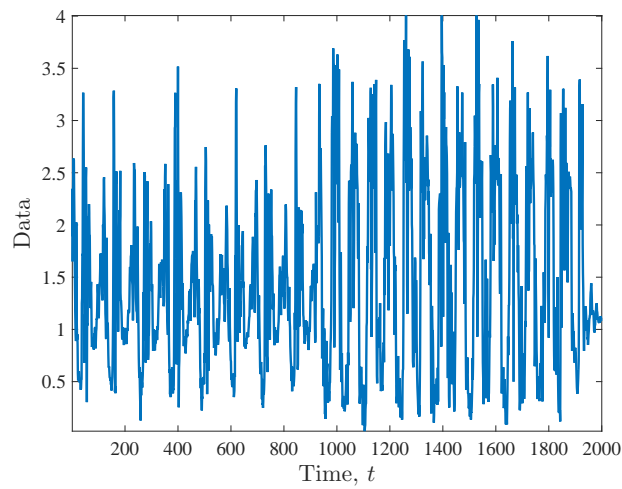


Рис. 21: Accelerometry time series from HASC project Target time series HASC1011

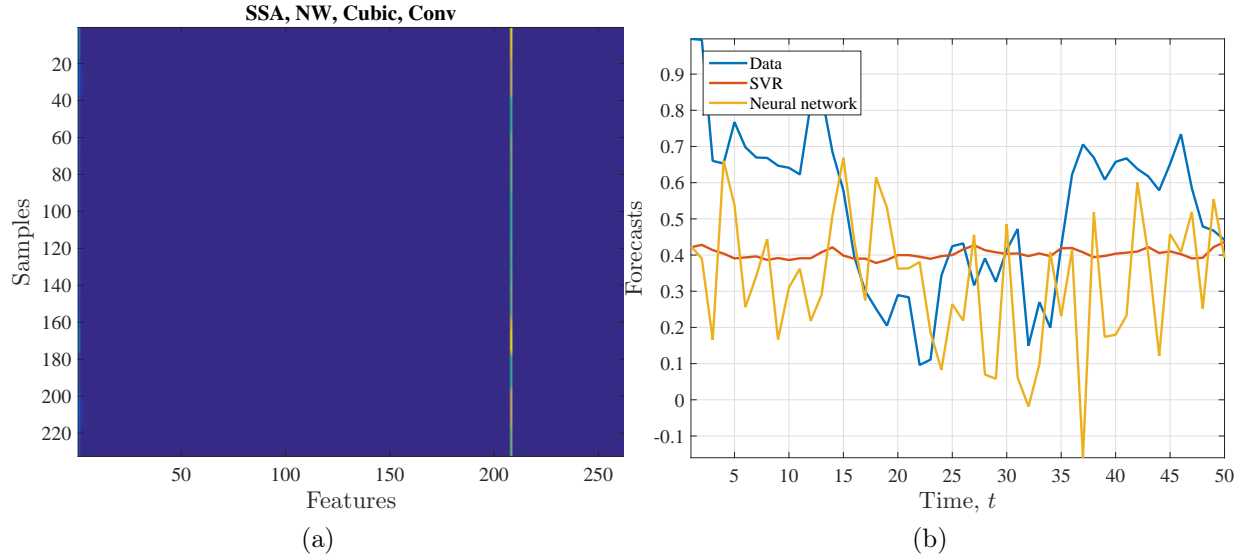


Рис. 22: (a) Feature generation results for HASC1011. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1011. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

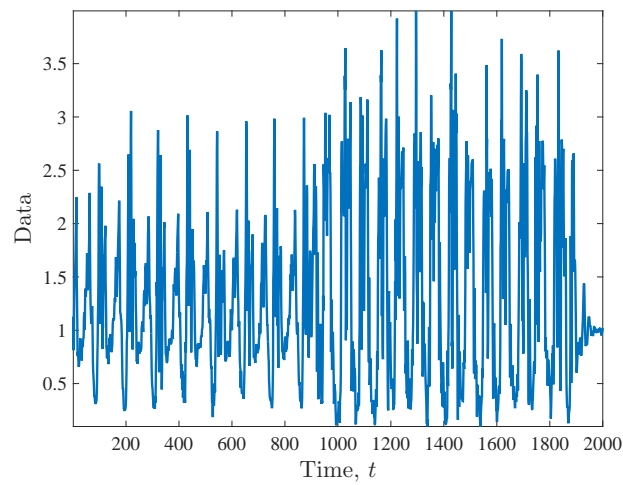


Рис. 23: Accelerometry time series from HASC project Target time series HASC1012

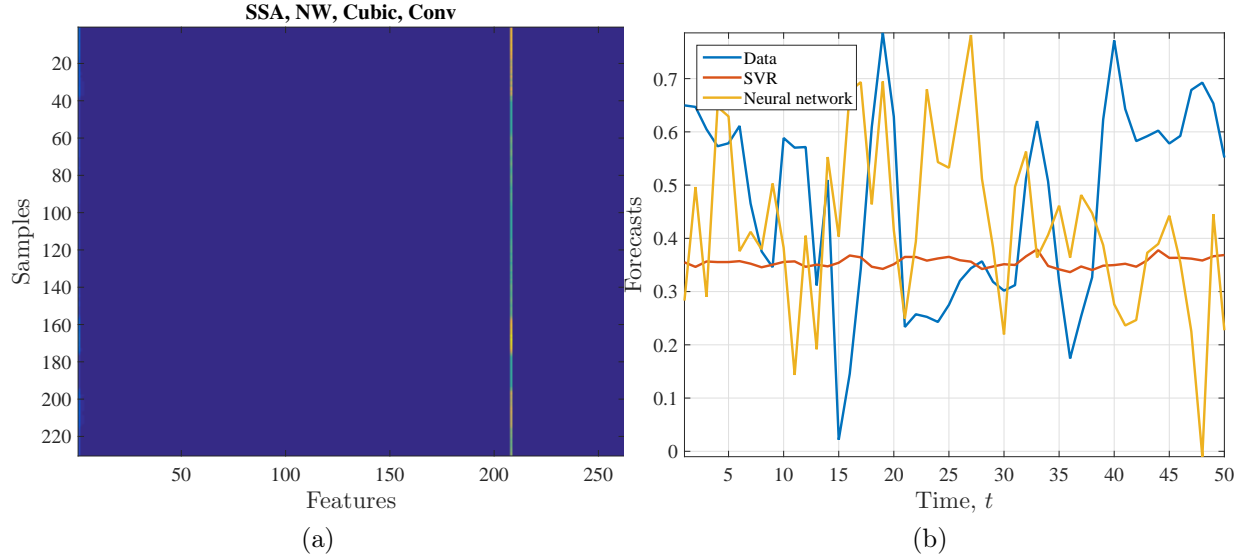


Рис. 24: (a) Feature generation results for HASC1012. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1012. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

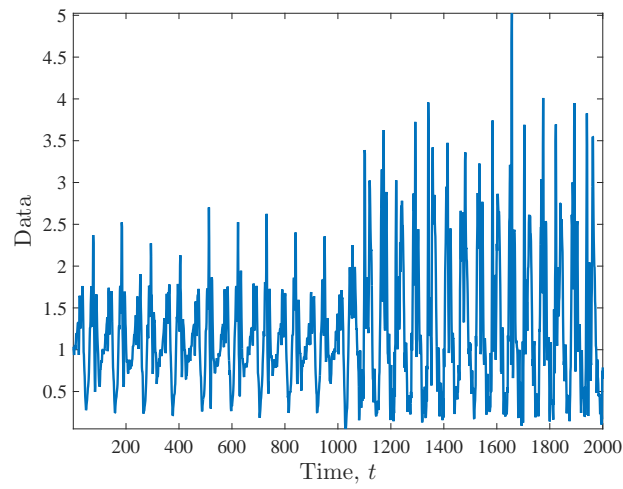


Рис. 25: Accelerometry time series from HASC project Target time series HASC1013

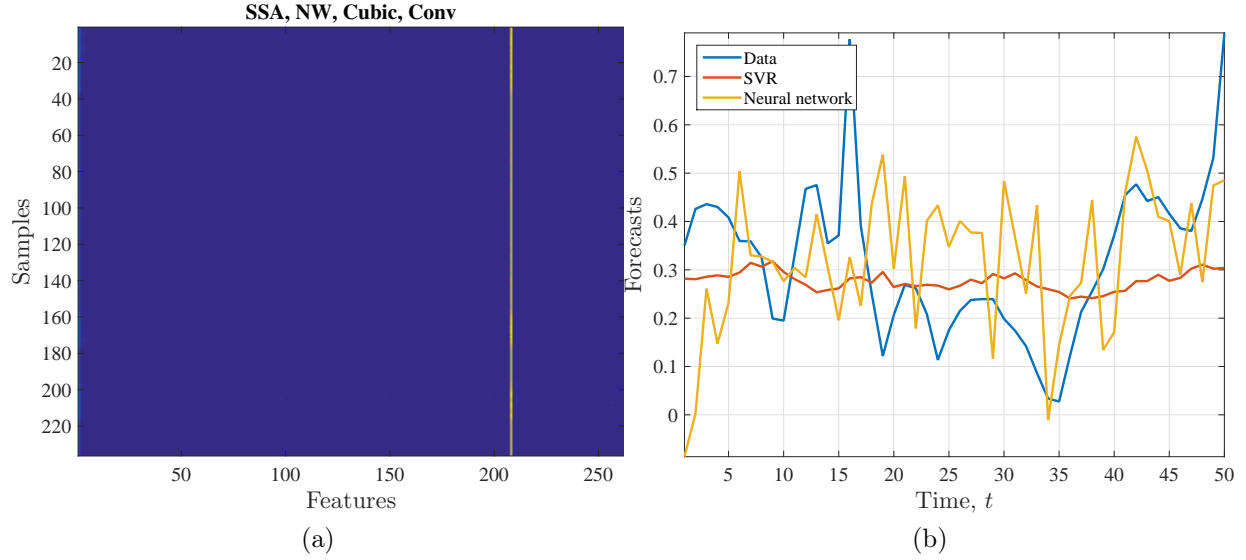


Рис. 26: (a) Feature generation results for HASC1013. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1013. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

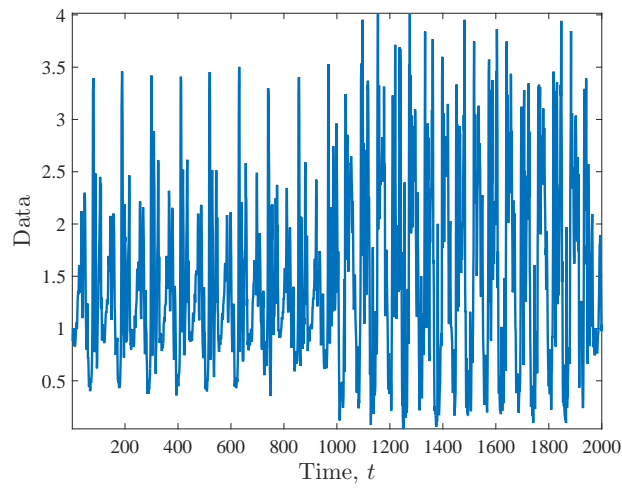


Рис. 27: Accelerometry time series from HASC project Target time series HASC1014

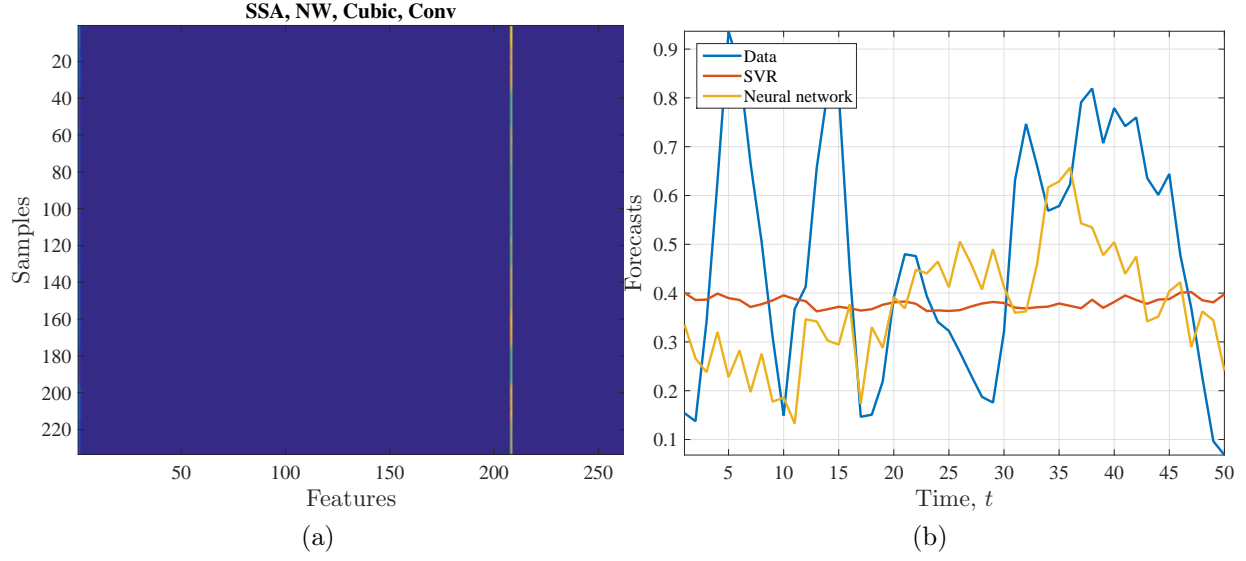


Рис. 28: (a) Feature generation results for HASC1014. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1014. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

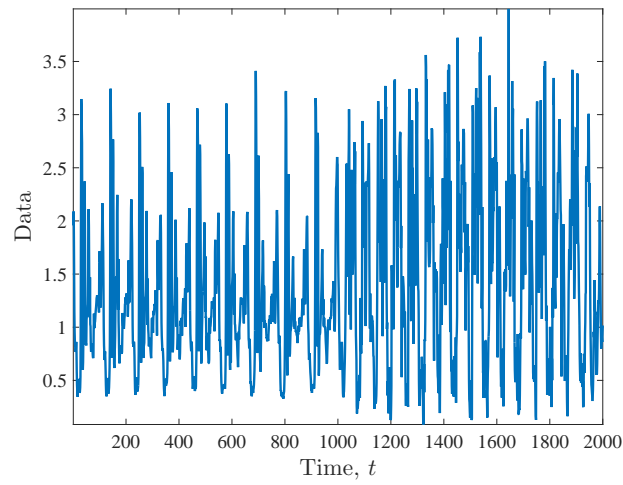


Рис. 29: Accelerometry time series from HASC project Target time series HASC1015

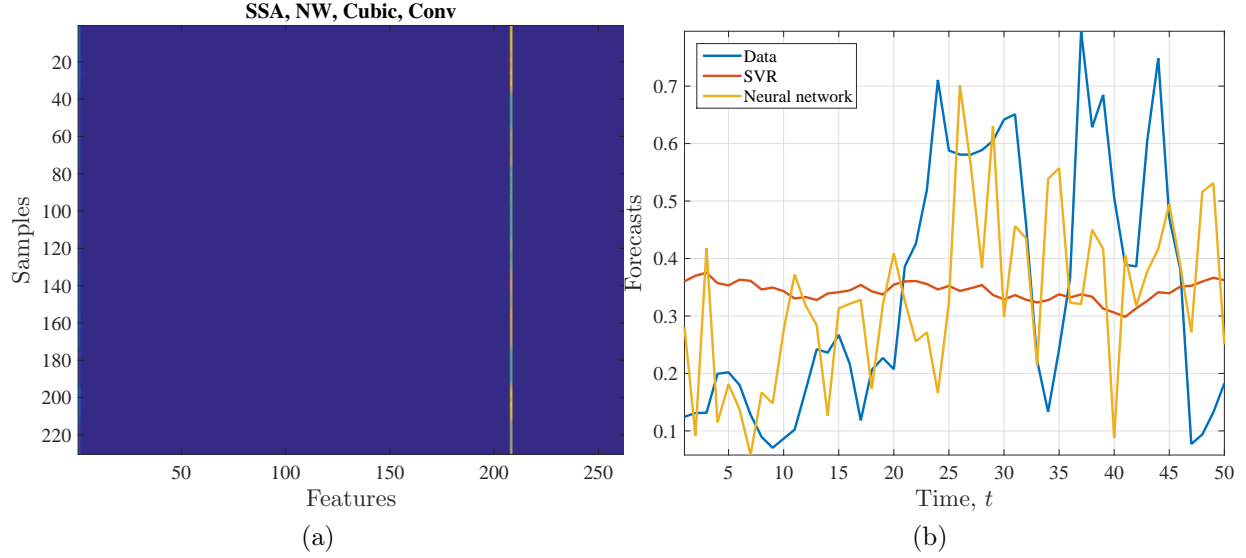


Рис. 30: (a) Feature generation results for HASC1015. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1015. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

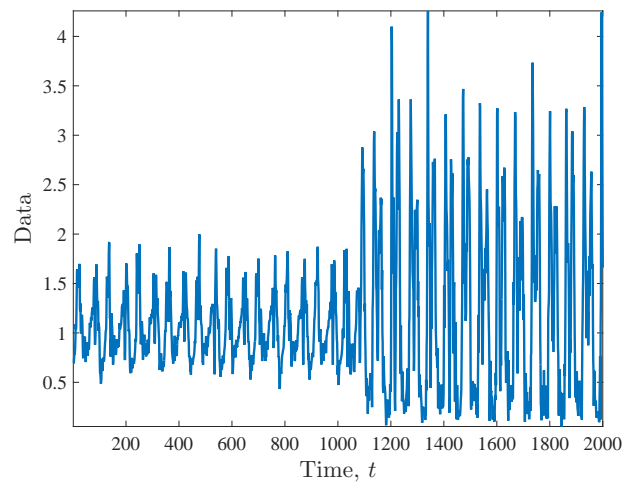


Рис. 31: Accelerometry time series from HASC project Target time series HASC1016

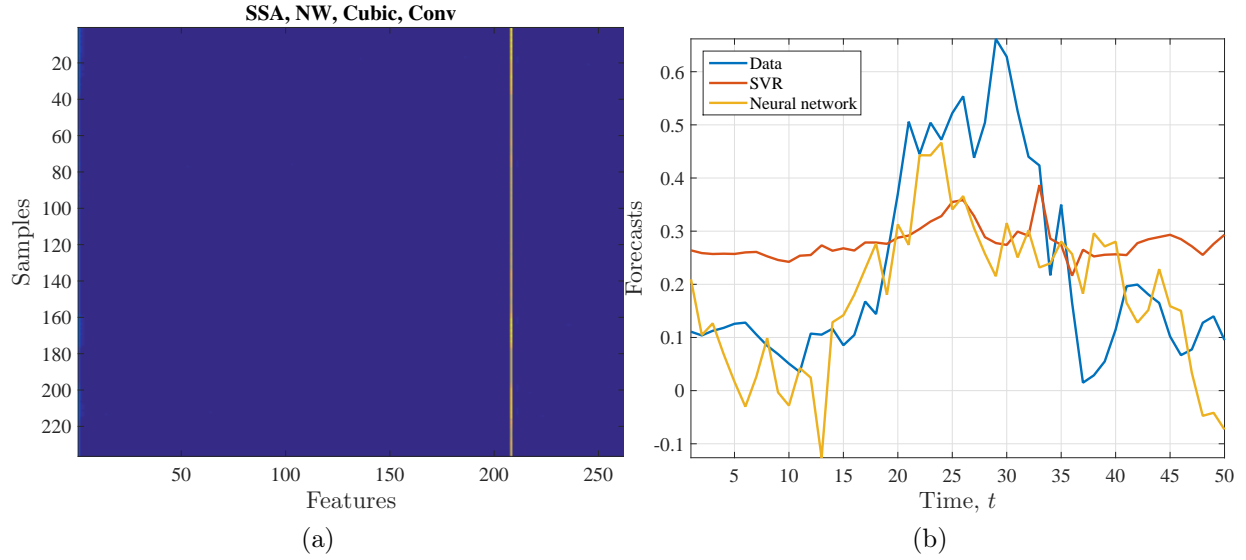


Рис. 32: (a) Feature generation results for HASC1016. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1016. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

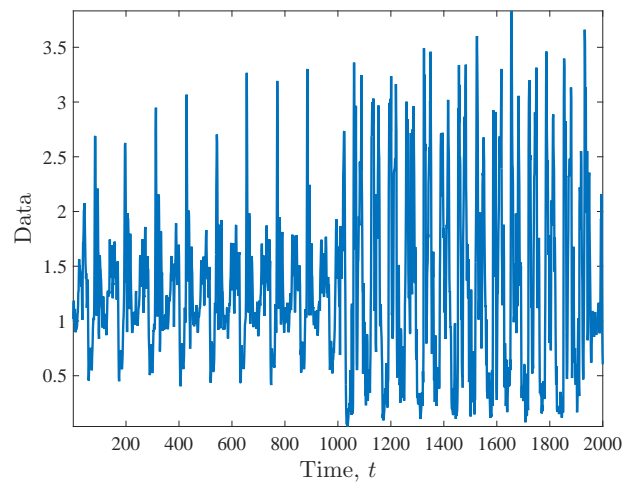


Рис. 33: Accelerometry time series from HASC project Target time series HASC1017

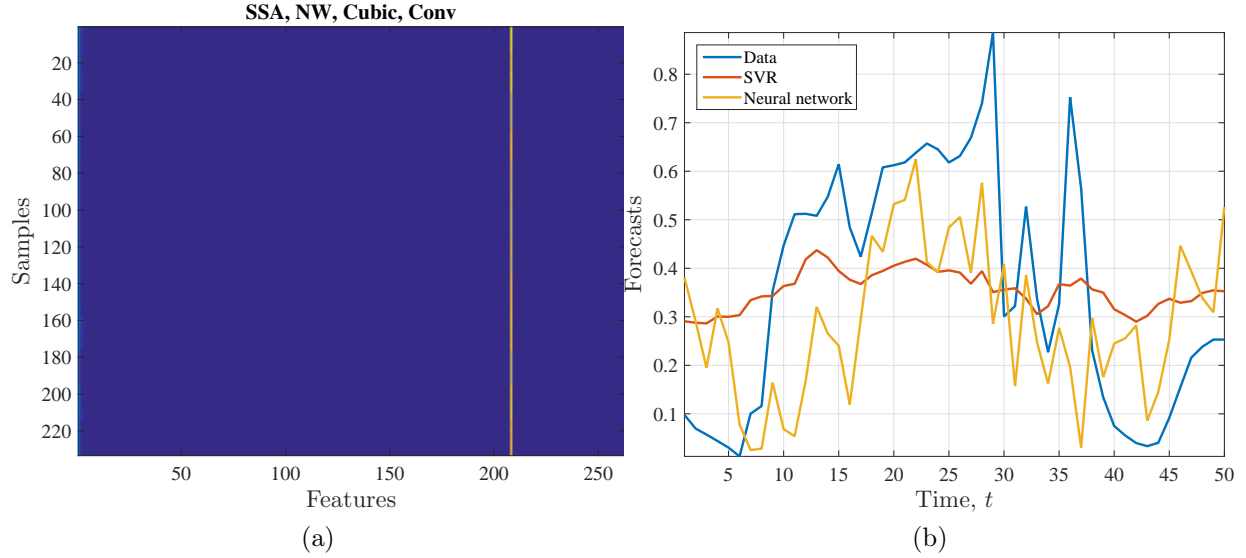


Рис. 34: (a) Feature generation results for HASC1017. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1017. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

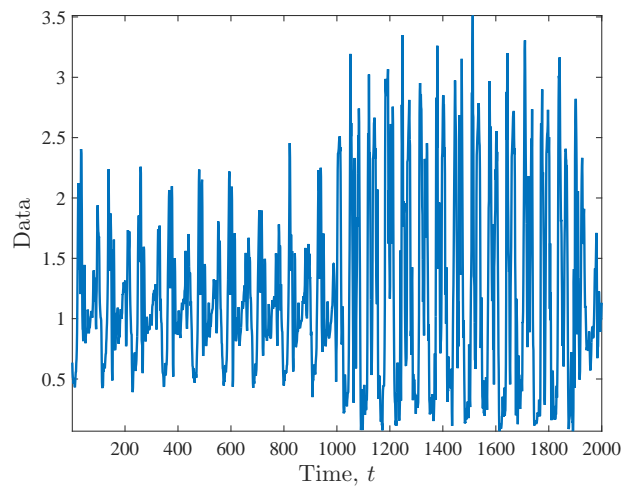


Рис. 35: Accelerometry time series from HASC project Target time series HASC1018

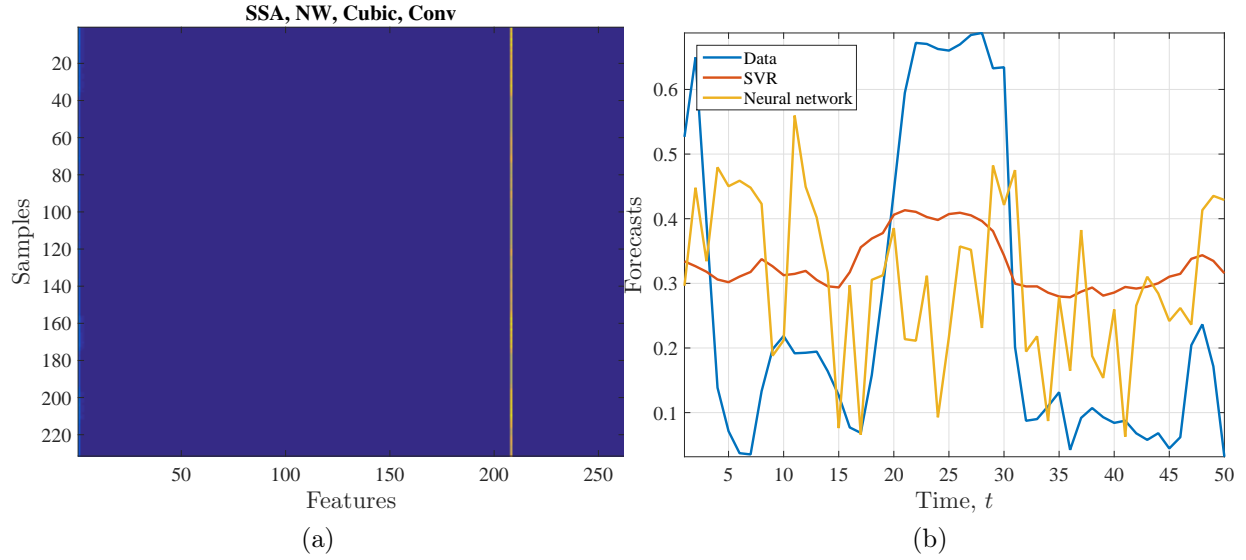


Рис. 36: (a) Feature generation results for HASC1018. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1018. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

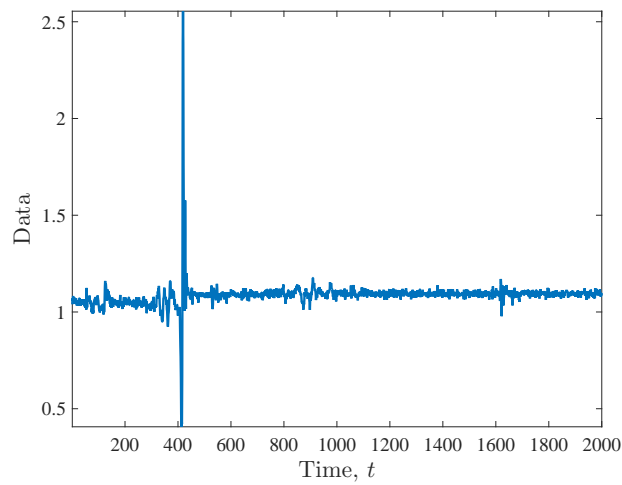


Рис. 37: Accelerometry time series from HASC project Target time series HASC1161

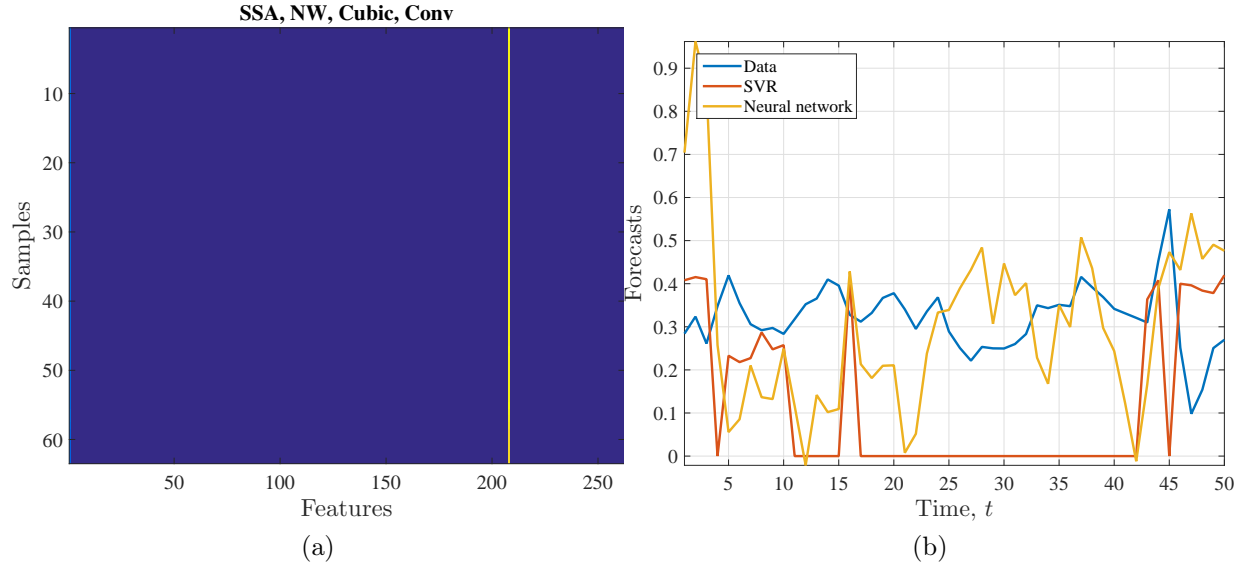


Рис. 38: (a) Feature generation results for HASC1161. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1161. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

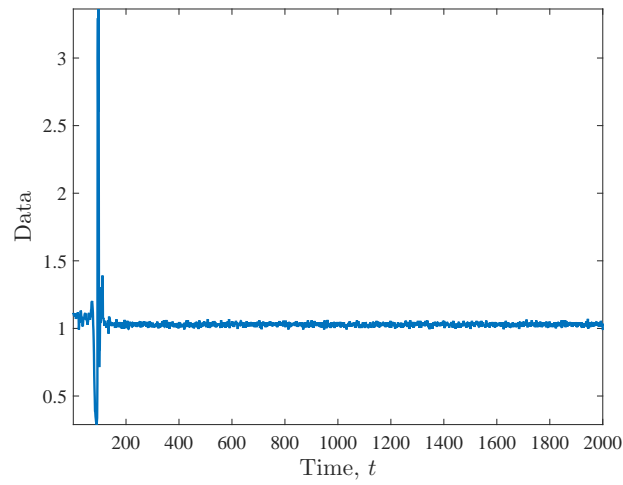


Рис. 39: Accelerometry time series from HASC project Target time series HASC1162

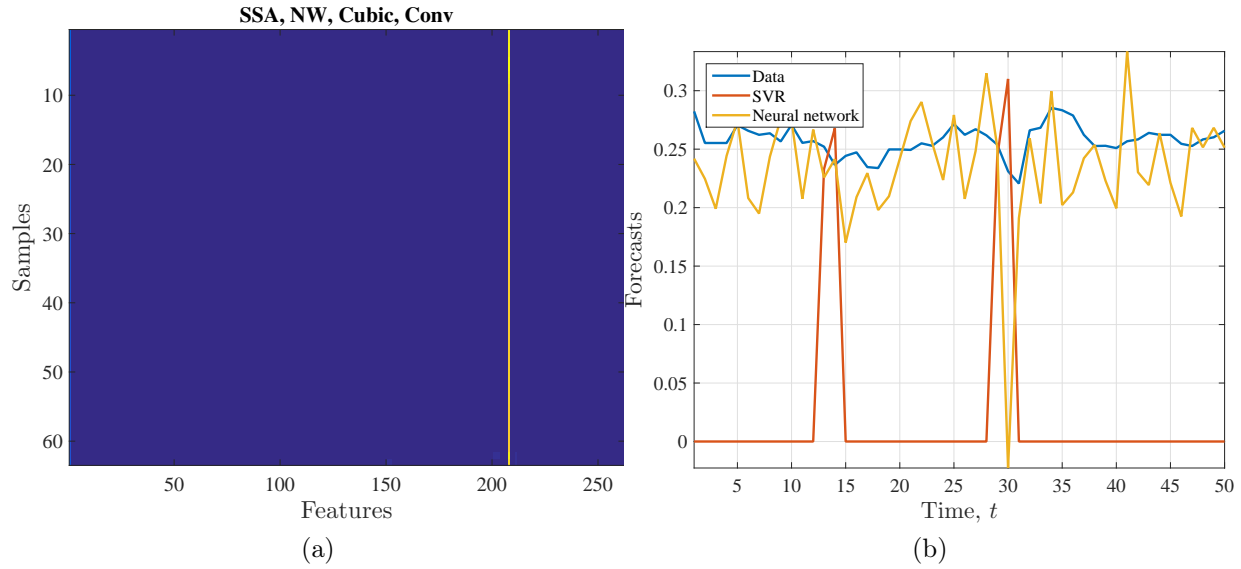


Рис. 40: (a) Feature generation results for HASC1162. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1162. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

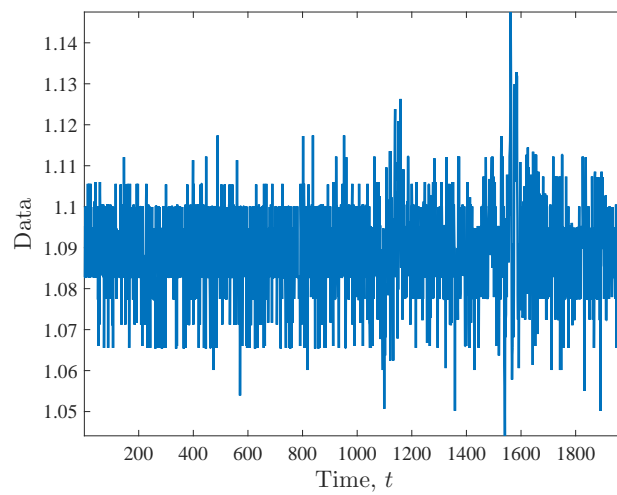


Рис. 41: Accelerometry time series from HASC project Target time series HASC1163

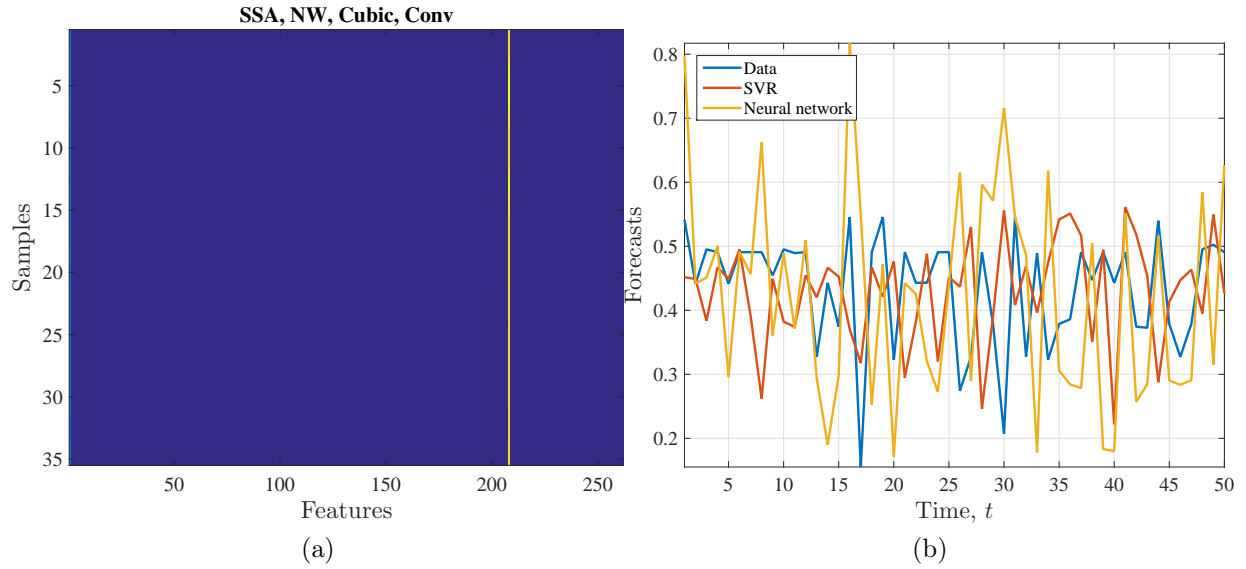


Рис. 42: (a) Feature generation results for HASC1163. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1163. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

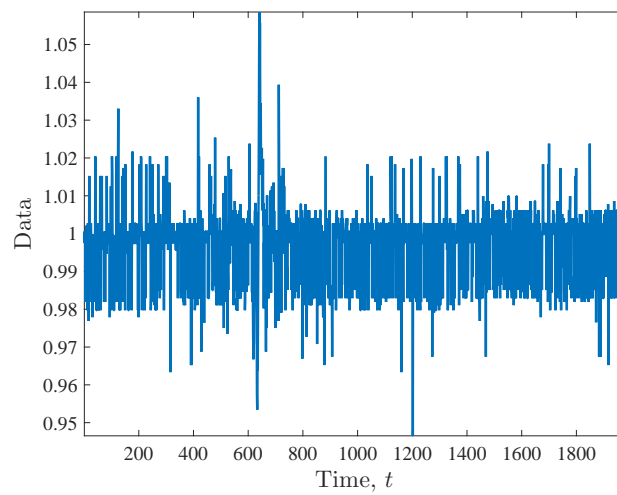


Рис. 43: Accelerometry time series from HASC project Target time series HASC1164

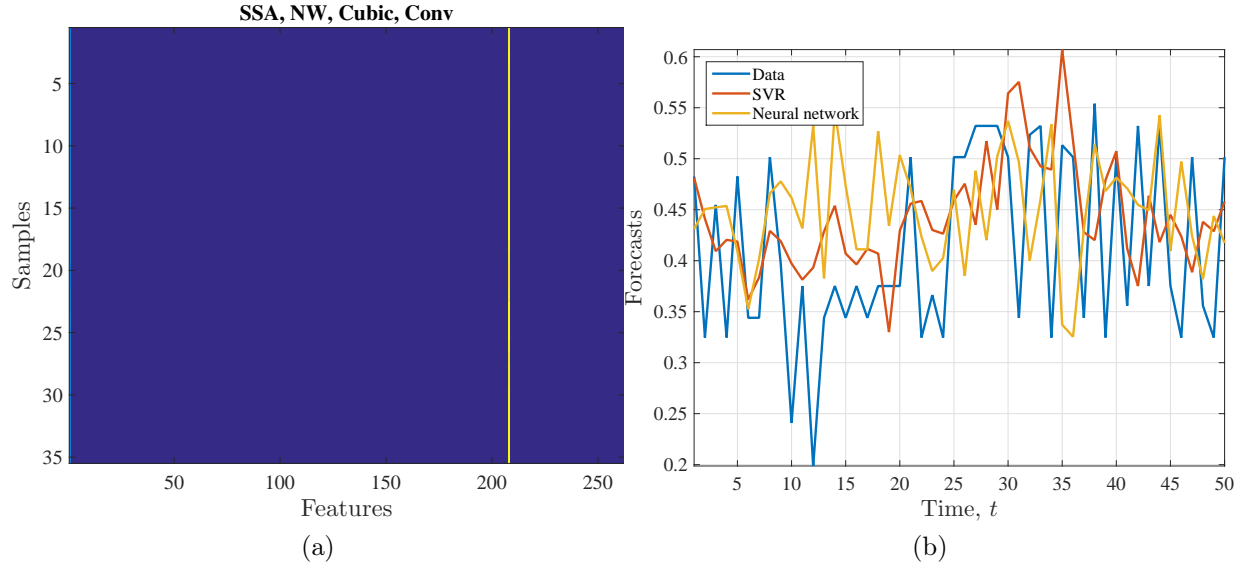


Рис. 44: (a) Feature generation results for HASC1164. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1164. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

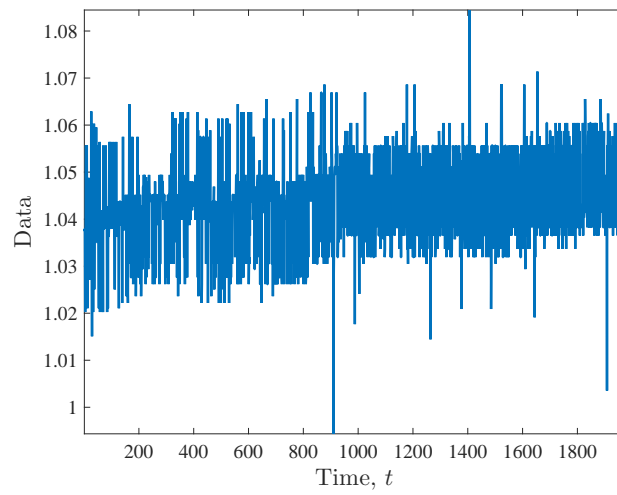


Рис. 45: Accelerometry time series from HASC project Target time series HASC1165

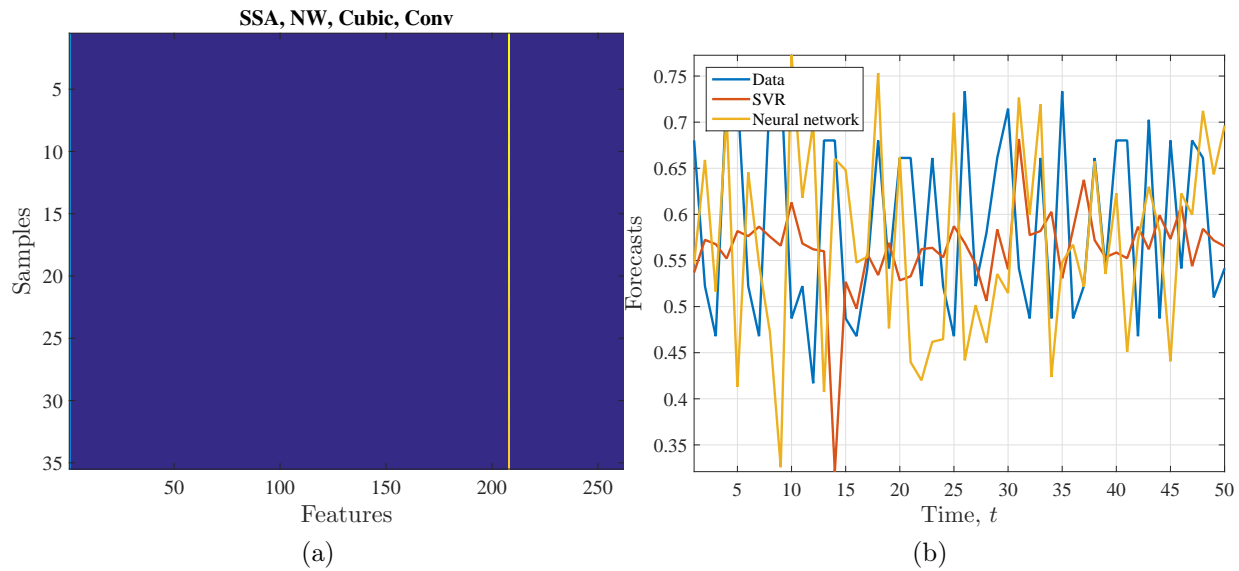


Рис. 46: (a) Feature generation results for HASC1165. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1165. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

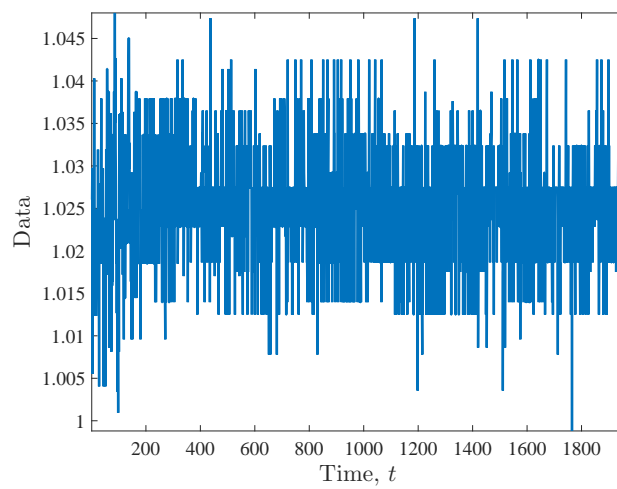


Рис. 47: Accelerometry time series from HASC project Target time series HASC1166

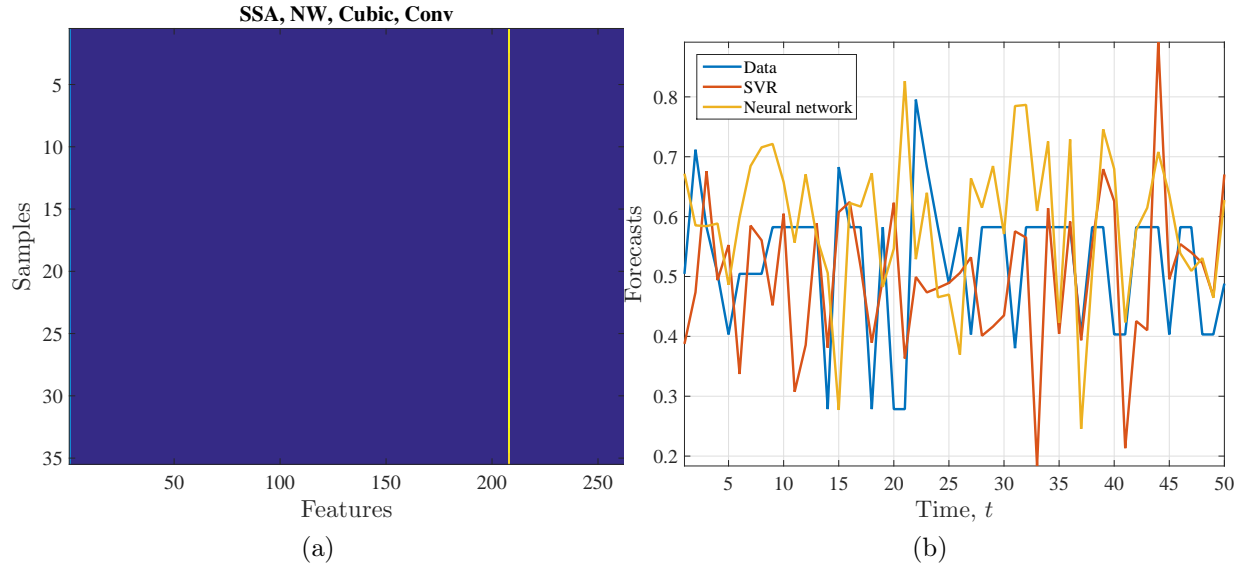


Рис. 48: (a) Feature generation results for HASC1166. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1166. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

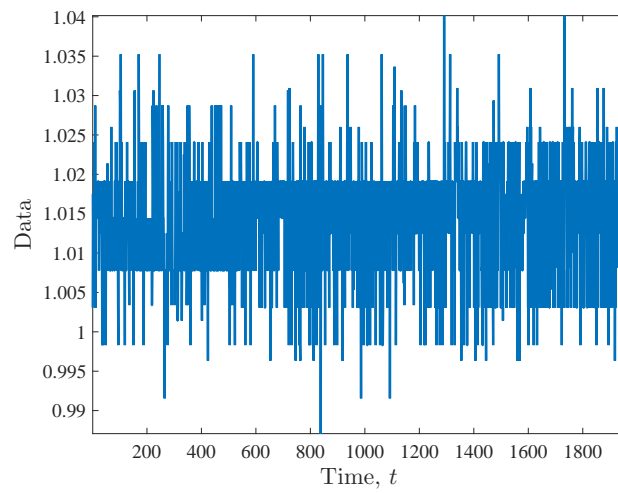


Рис. 49: Accelerometry time series from HASC project Target time series HASC1167

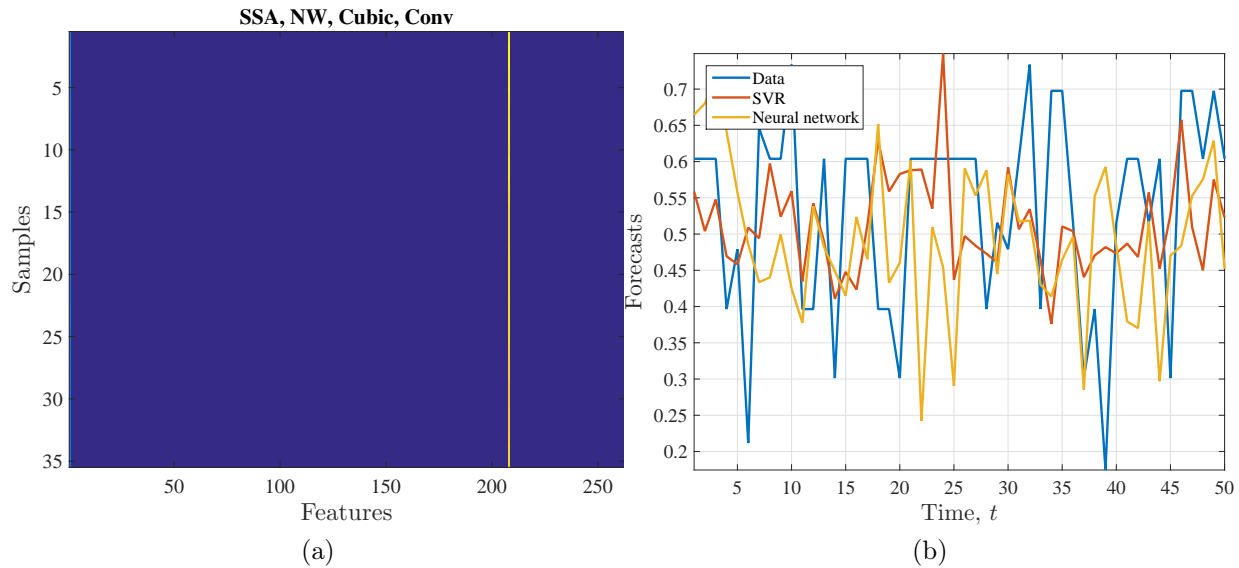


Рис. 50: (a) Feature generation results for HASC1167. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1167. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

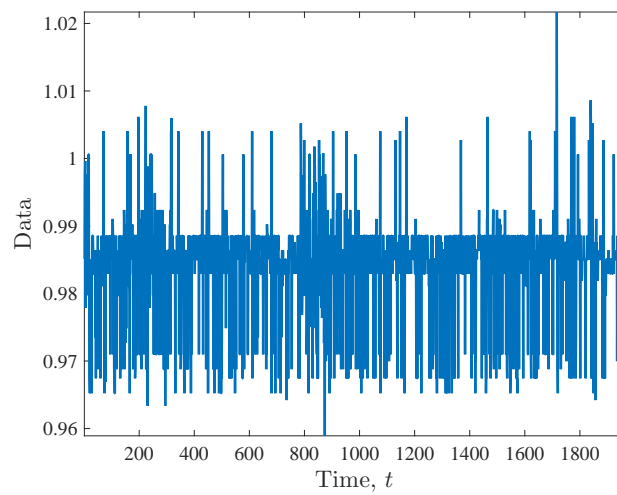


Рис. 51: Accelerometry time series from HASC project Target time series HASC1168

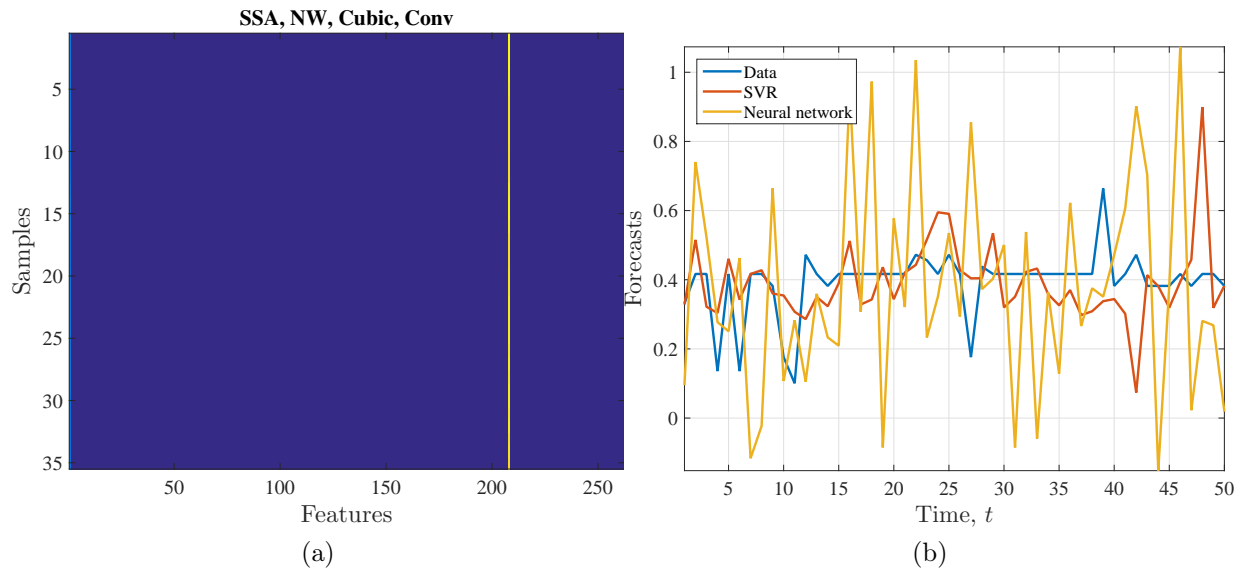


Рис. 52: (a) Feature generation results for HASC1168. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1168. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

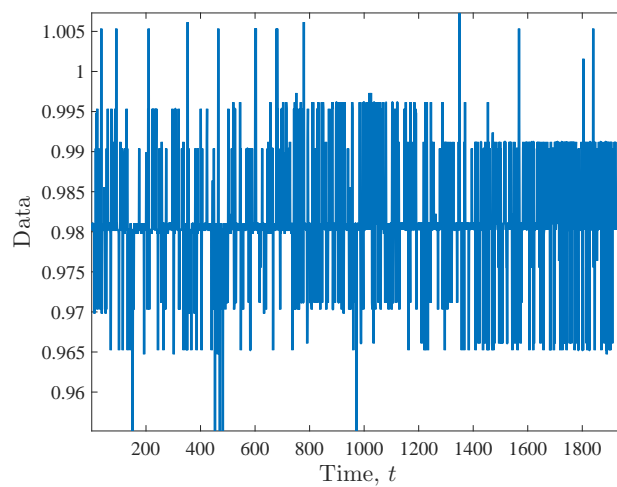


Рис. 53: Accelerometry time series from HASC project Target time series HASC1169

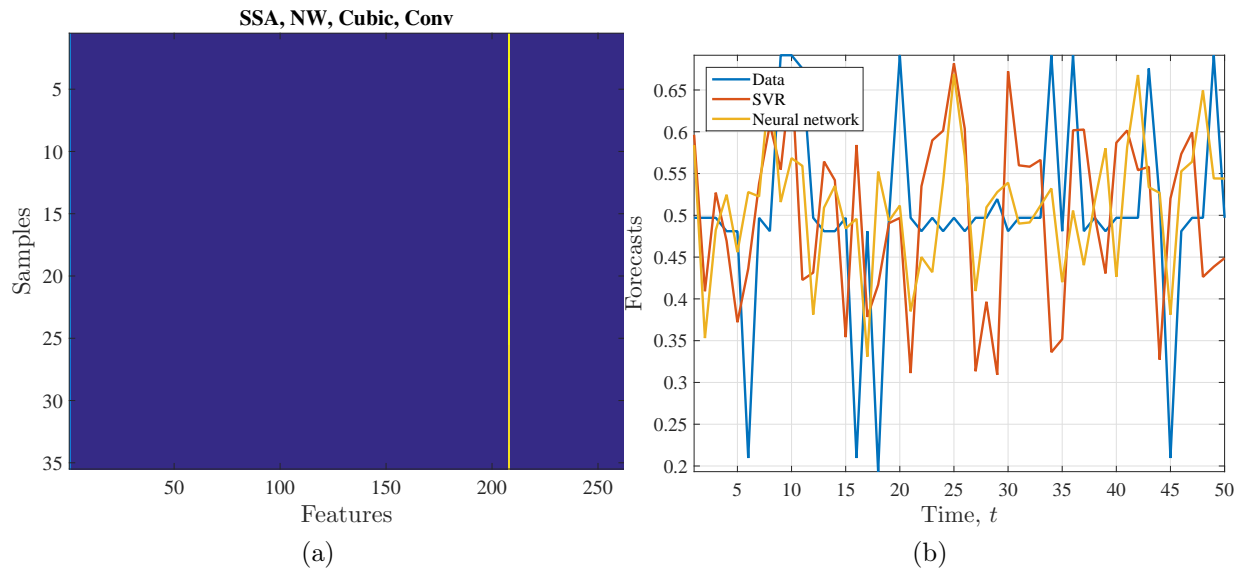


Рис. 54: (a) Feature generation results for HASC1169. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1169. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

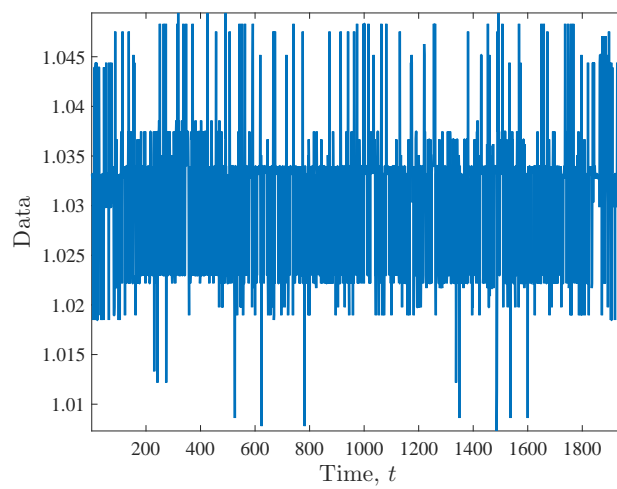


Рис. 55: Accelerometry time series from HASC project Target time series HASC1170

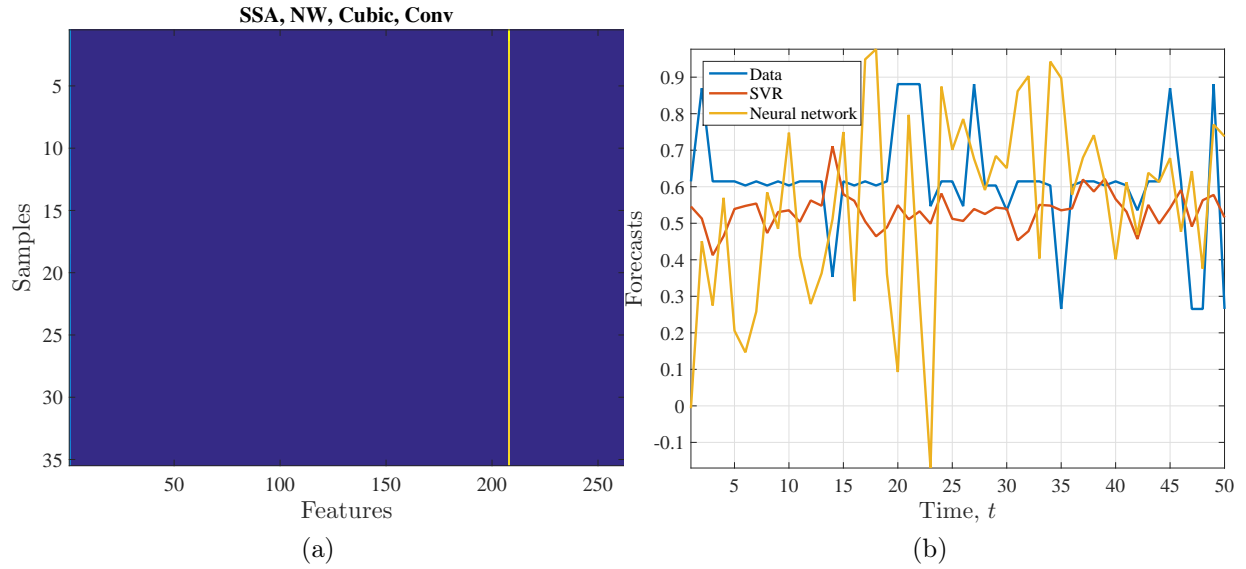


Рис. 56: (a) Feature generation results for HASC1170. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1170. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

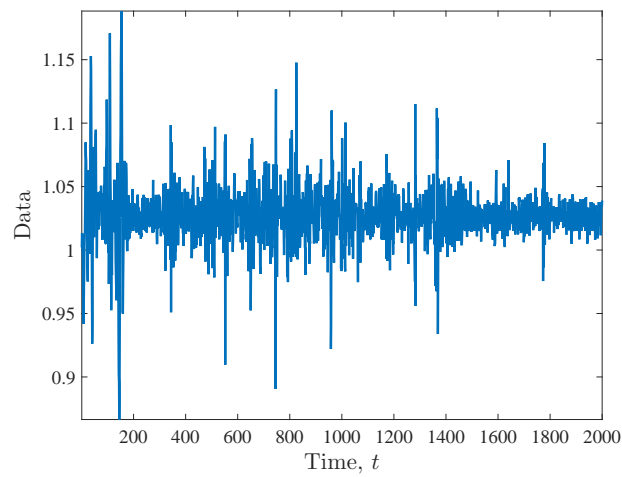


Рис. 57: Accelerometry time series from HASC project Target time series HASC1171

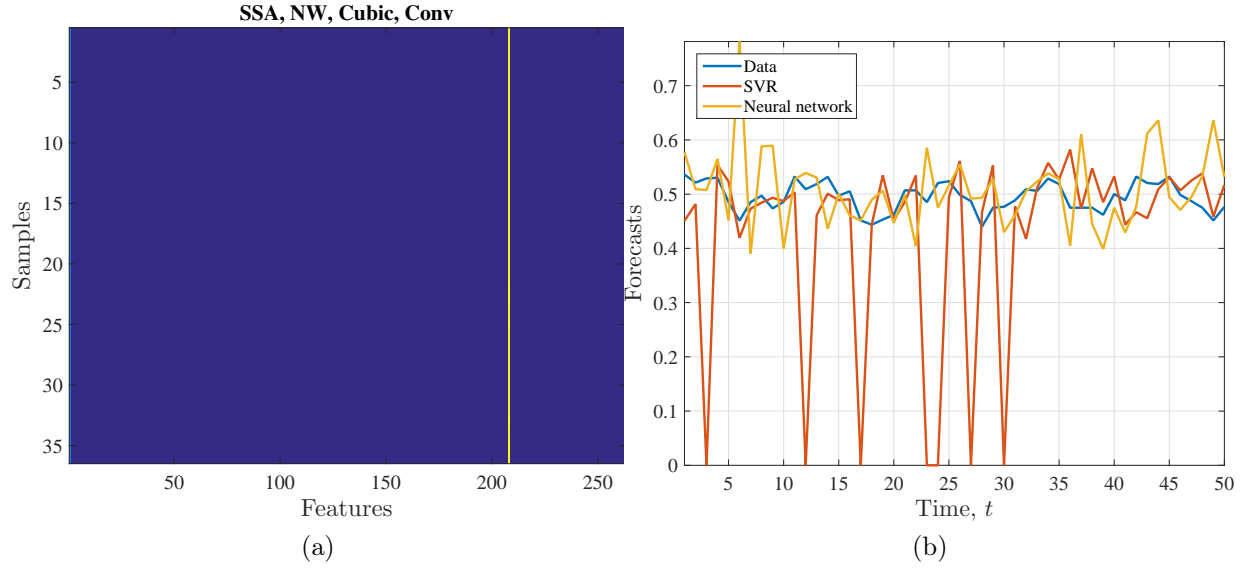


Рис. 58: (a) Feature generation results for HASC1171. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1171. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

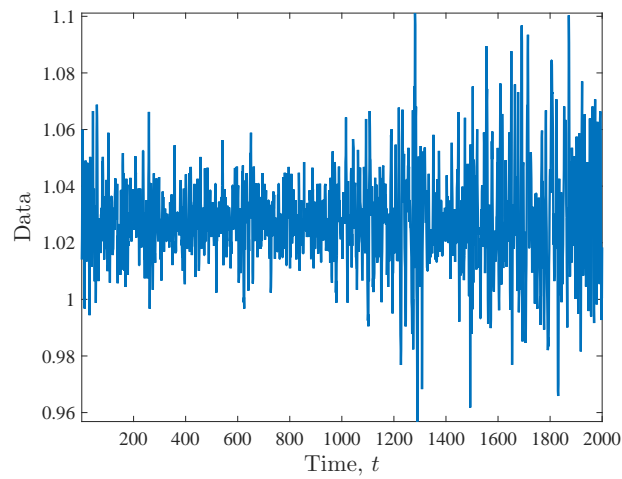


Рис. 59: Accelerometry time series from HASC project Target time series HASC1172

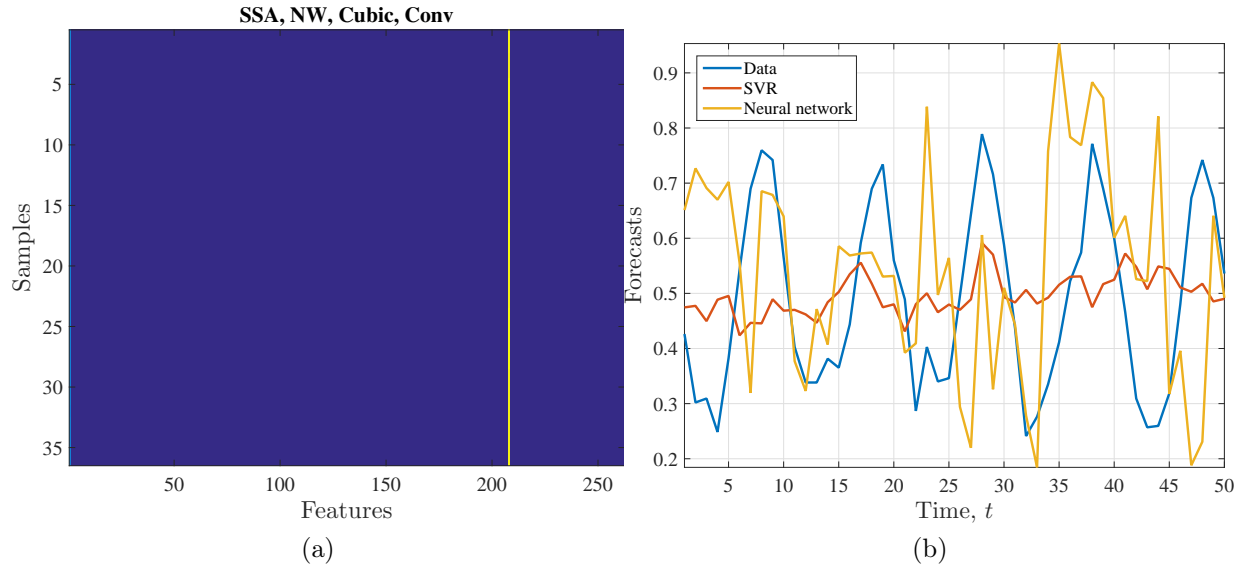


Рис. 60: (a) Feature generation results for HASC1172. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1172. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

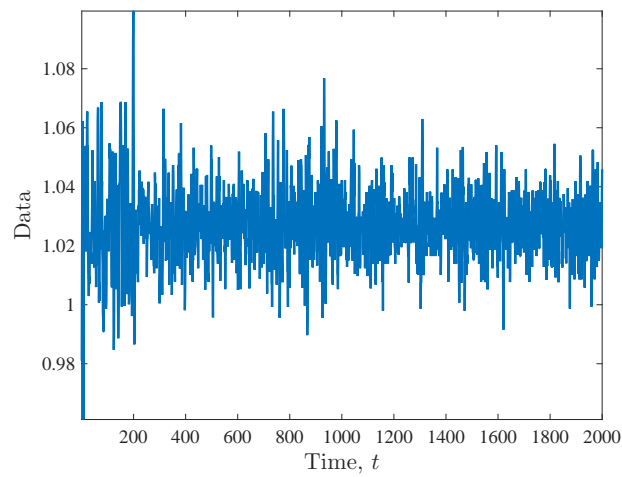


Рис. 61: Accelerometry time series from HASC project Target time series HASC1173

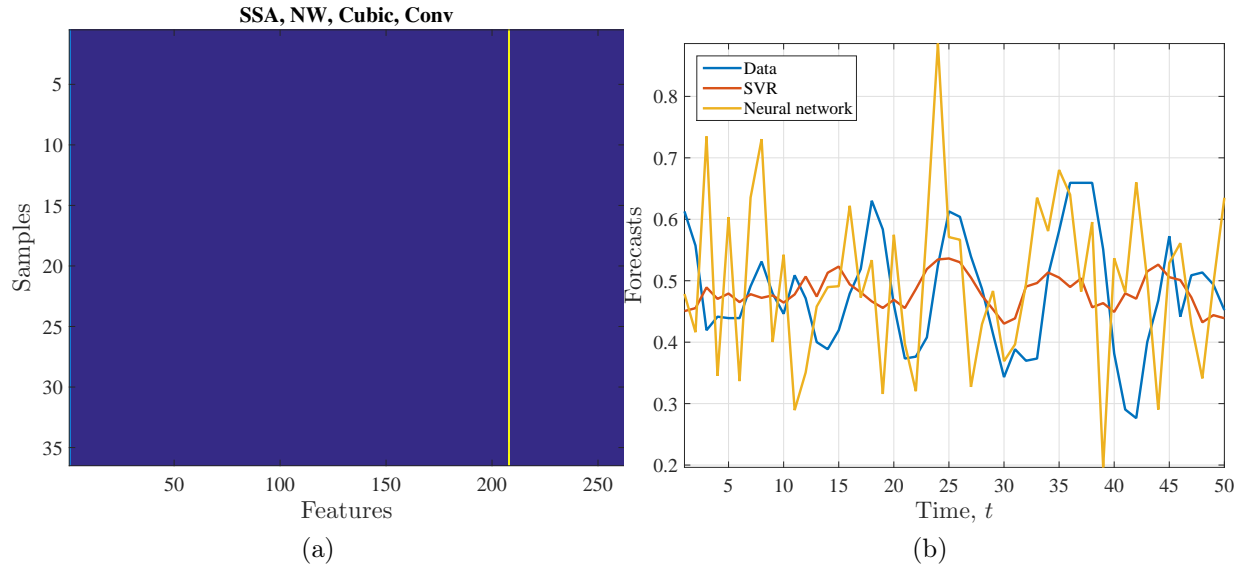


Рис. 62: (a) Feature generation results for HASC1173. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1173. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

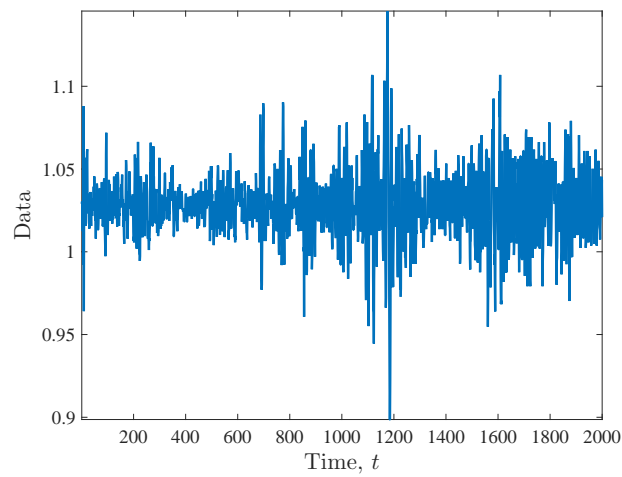


Рис. 63: Accelerometry time series from HASC project Target time series HASC1174

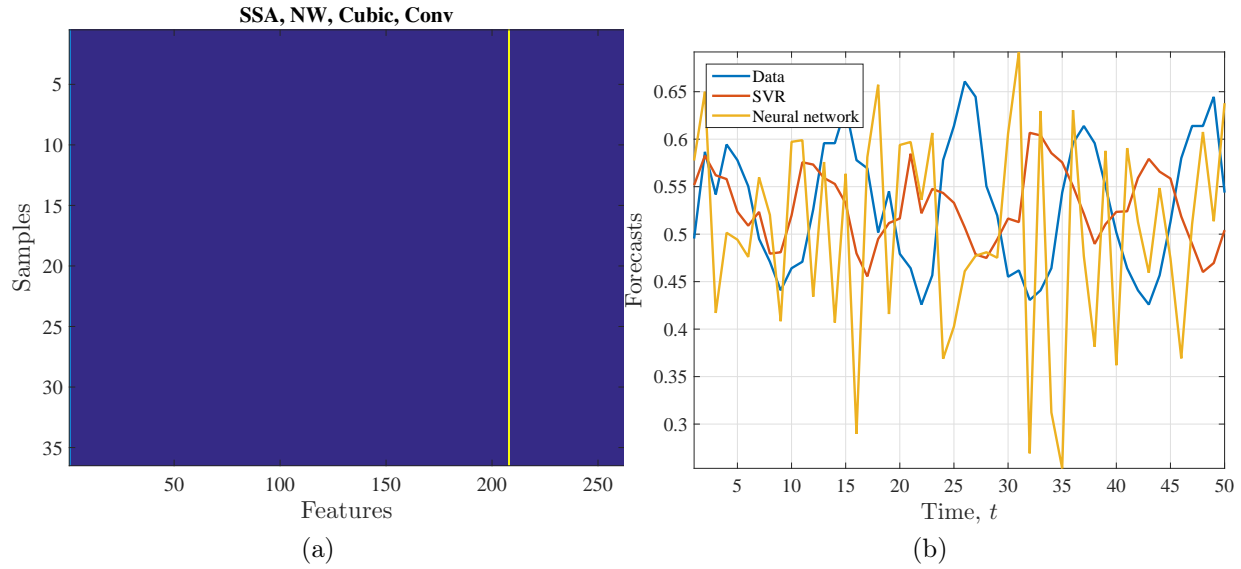


Рис. 64: (a) Feature generation results for HASC1174. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1174. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

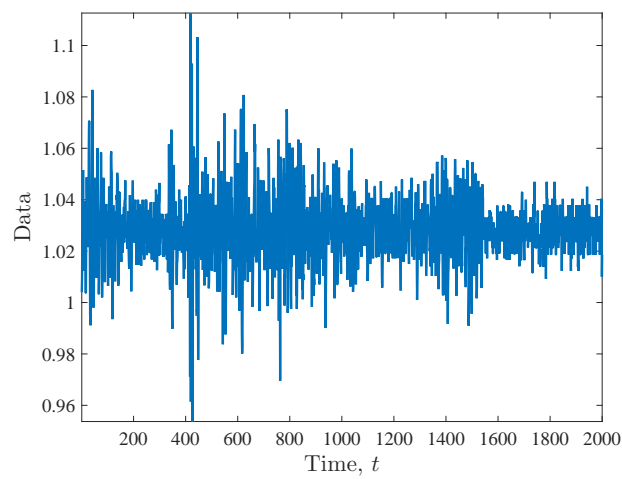


Рис. 65: Accelerometry time series from HASC project Target time series HASC1175

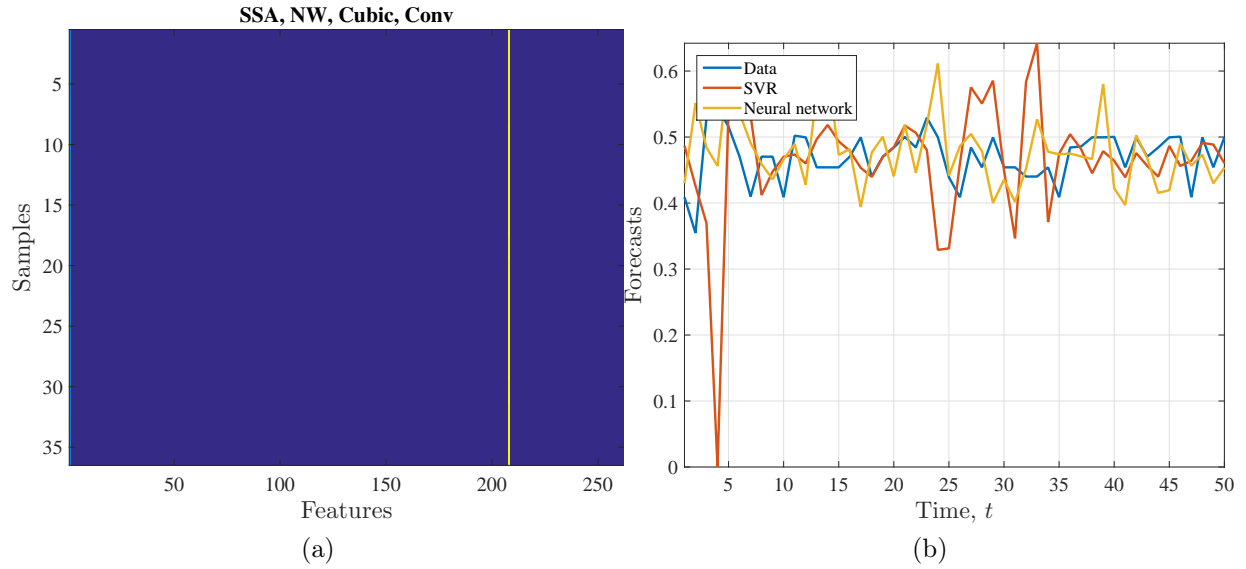


Рис. 66: (a) Feature generation results for HASC1175. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1175. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

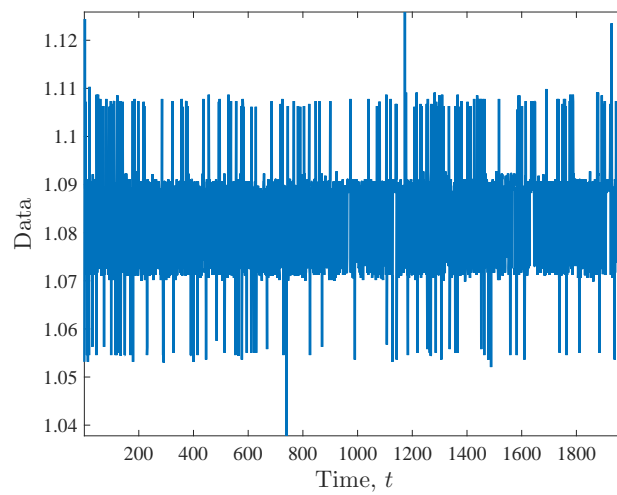


Рис. 67: Accelerometry time series from HASC project Target time series HASC1176

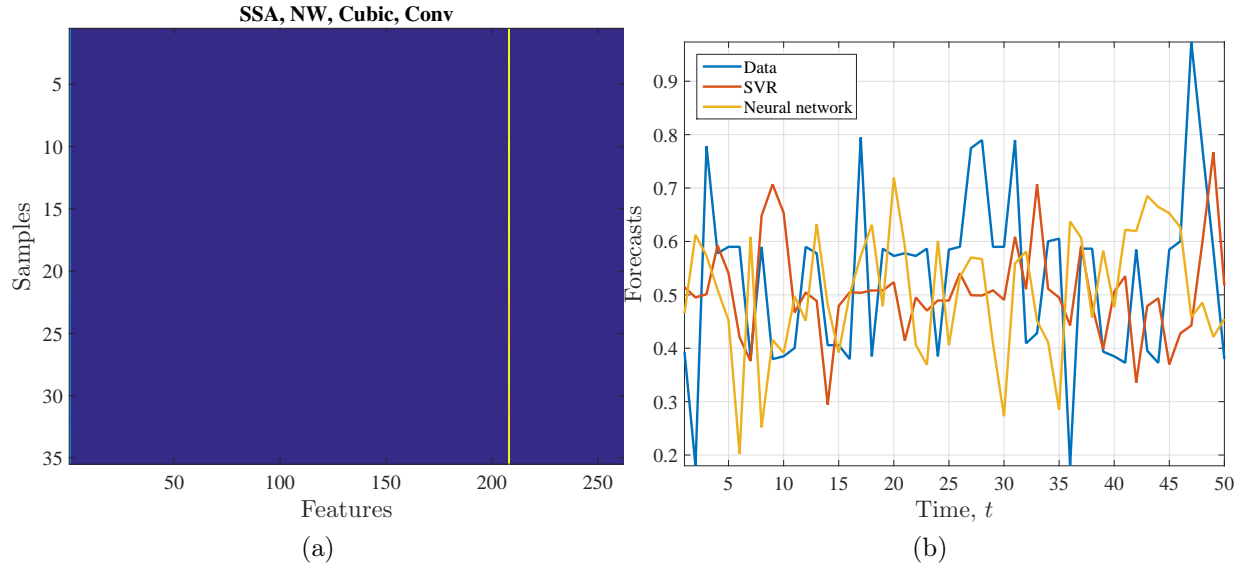


Рис. 68: (a) Feature generation results for HASC1176. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1176. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

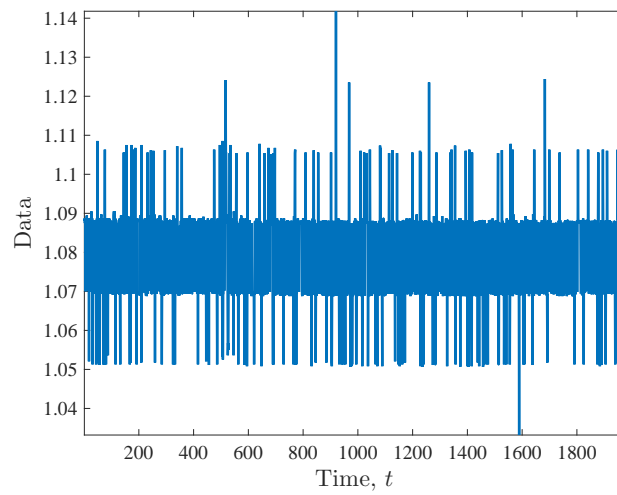


Рис. 69: Accelerometry time series from HASC project Target time series HASC1177

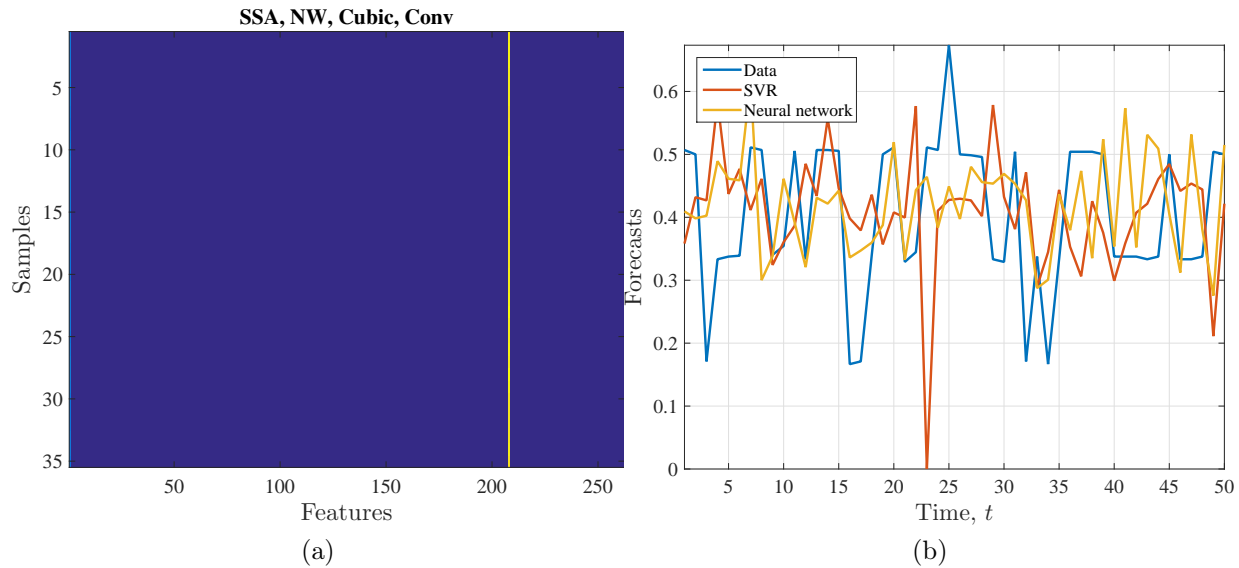


Рис. 70: (a) Feature generation results for HASC1177. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1177. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

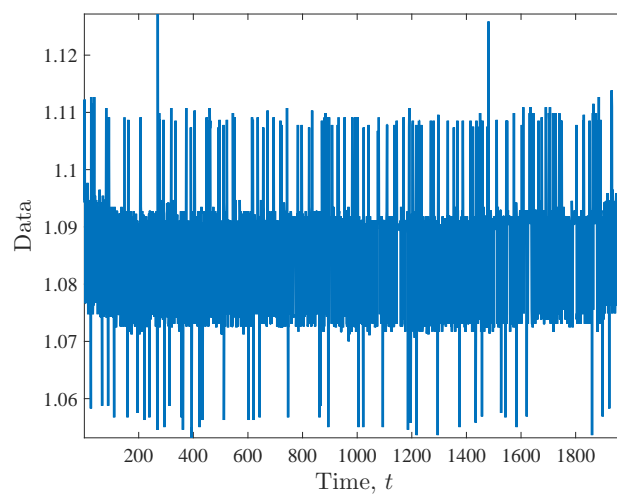


Рис. 71: Accelerometry time series from HASC project Target time series HASC1178

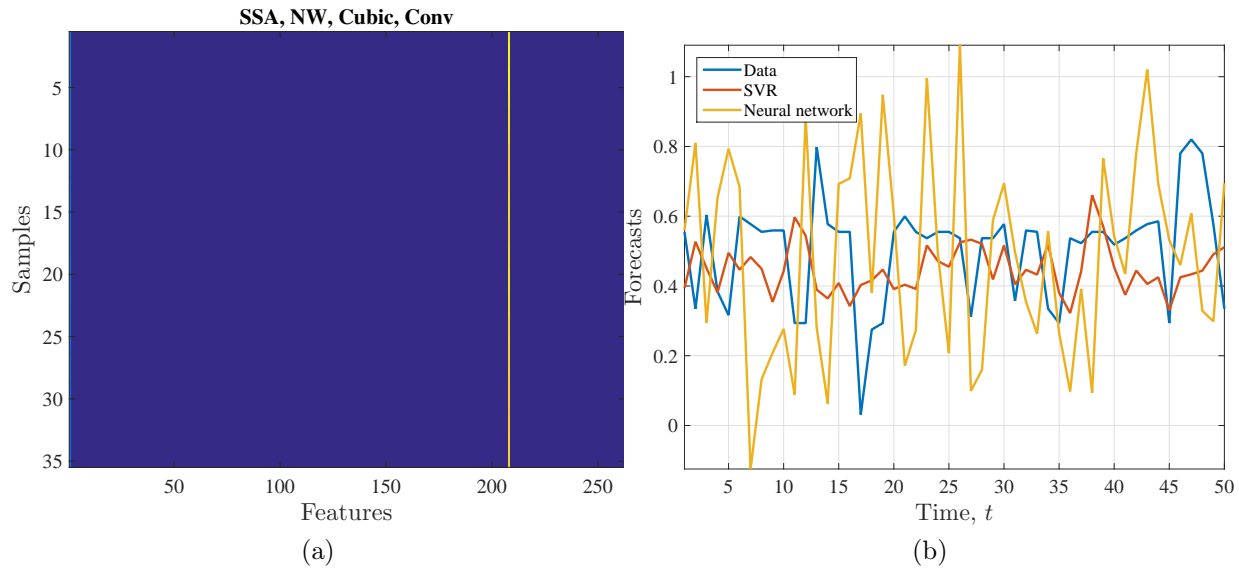


Рис. 72: (a) Feature generation results for HASC1178. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1178. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

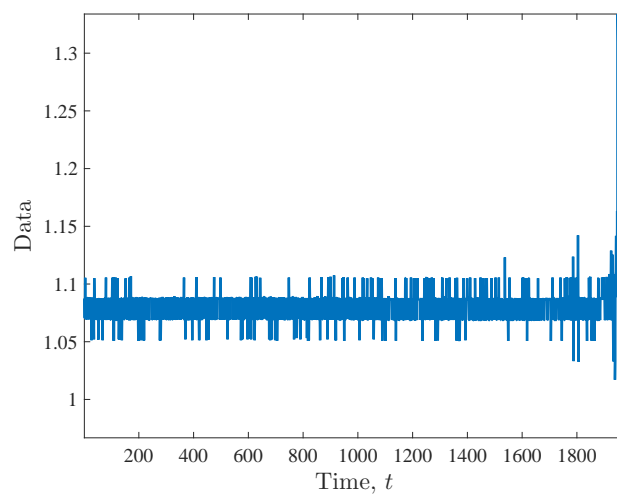


Рис. 73: Accelerometry time series from HASC project Target time series HASC1179

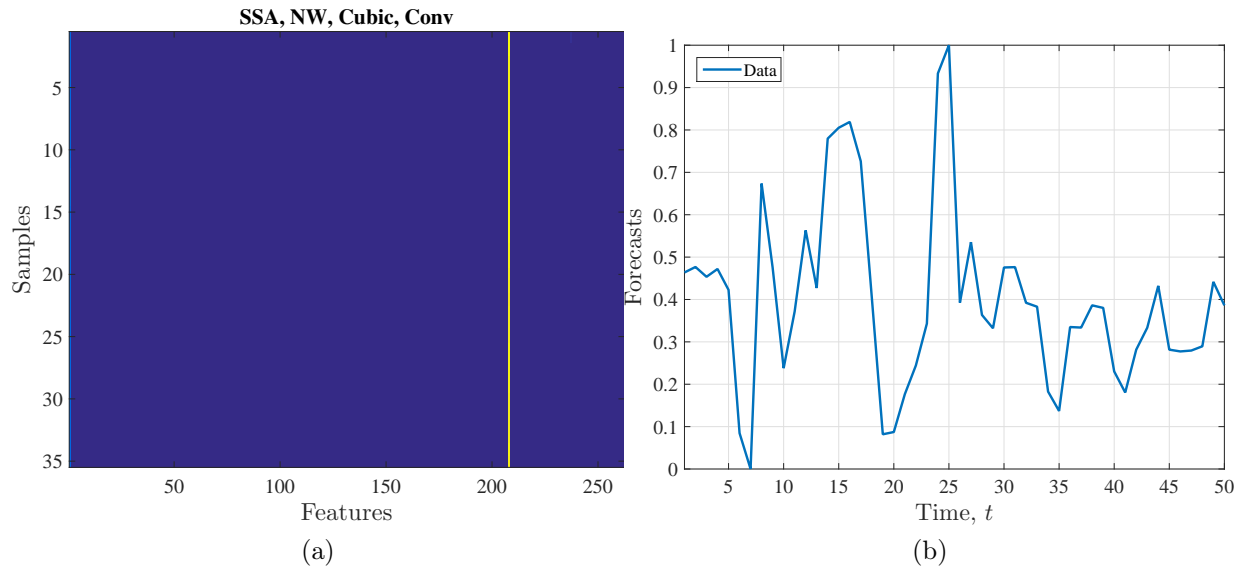


Рис. 74: (a) Feature generation results for HASC1179. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1179. Error exceeds 1000 for the following models: VAR, SVR, Neural network. The forecasts for VAR, SVR, Neural network are not displayed.

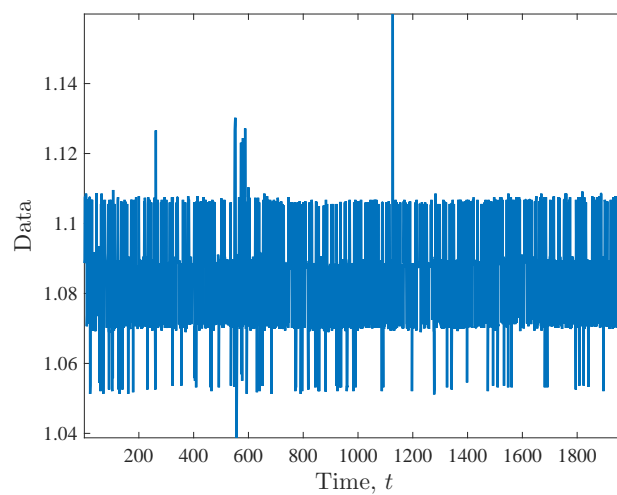


Рис. 75: Accelerometry time series from HASC project Target time series HASC1180

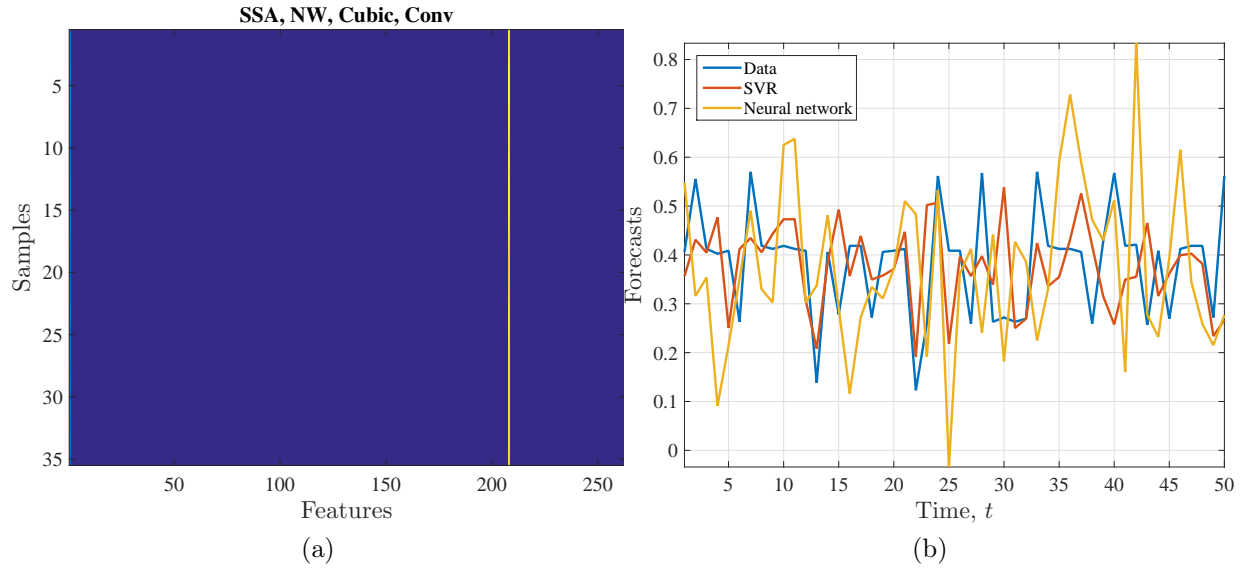


Рис. 76: (a) Feature generation results for HASC1180. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1180. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

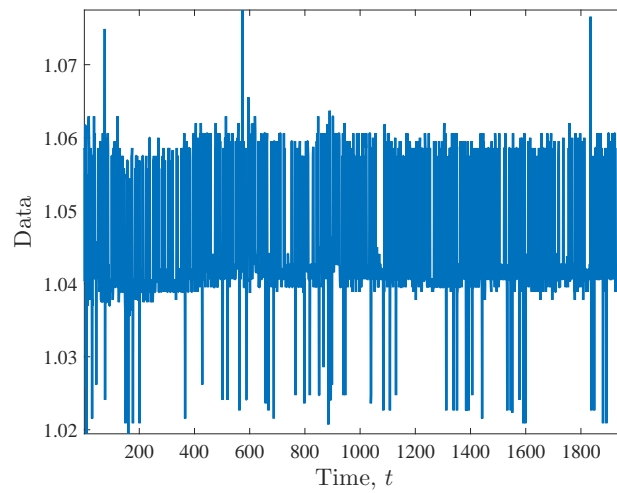


Рис. 77: Accelerometry time series from HASC project Target time series HASC1181

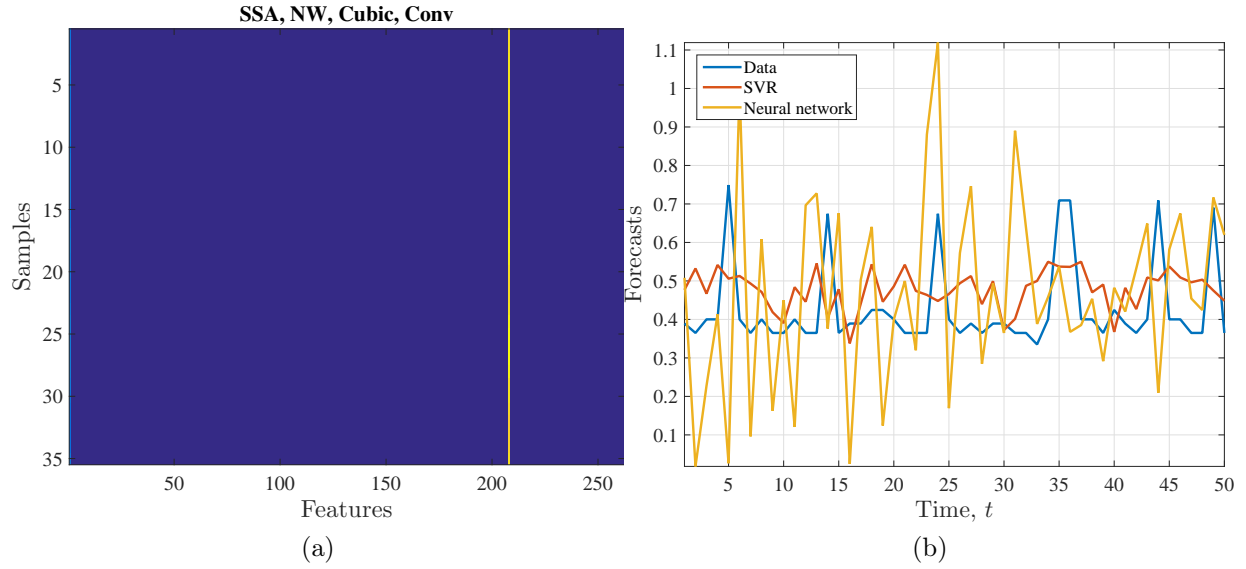


Рис. 78: (a) Feature generation results for HASC1181. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1181. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

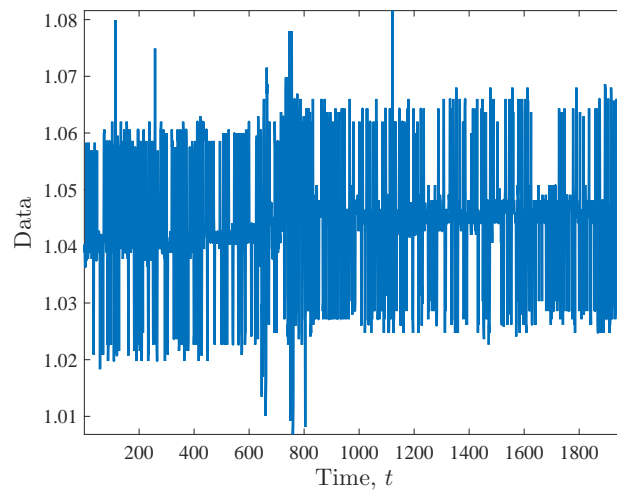


Рис. 79: Accelerometry time series from HASC project Target time series HASC1182

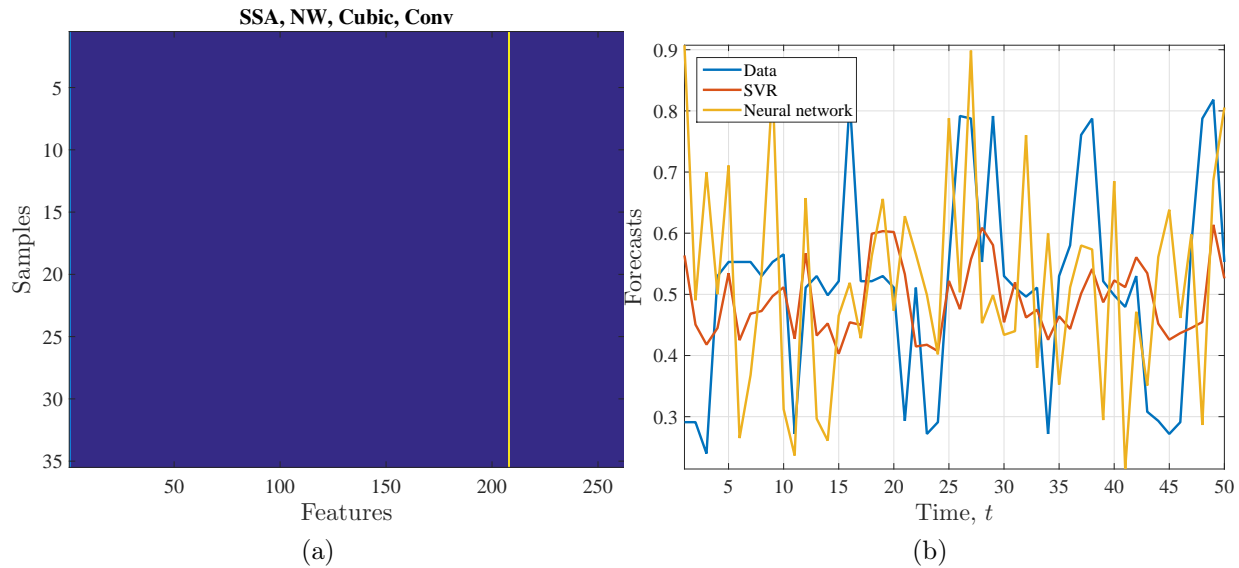


Рис. 80: (a) Feature generation results for HASC1182. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1182. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

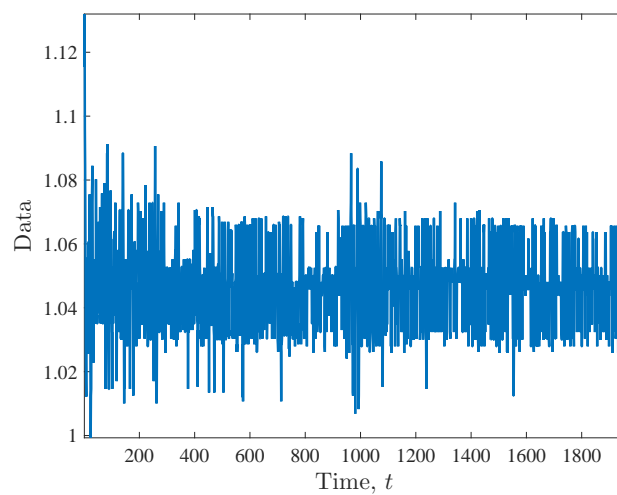


Рис. 81: Accelerometry time series from HASC project Target time series HASC1183

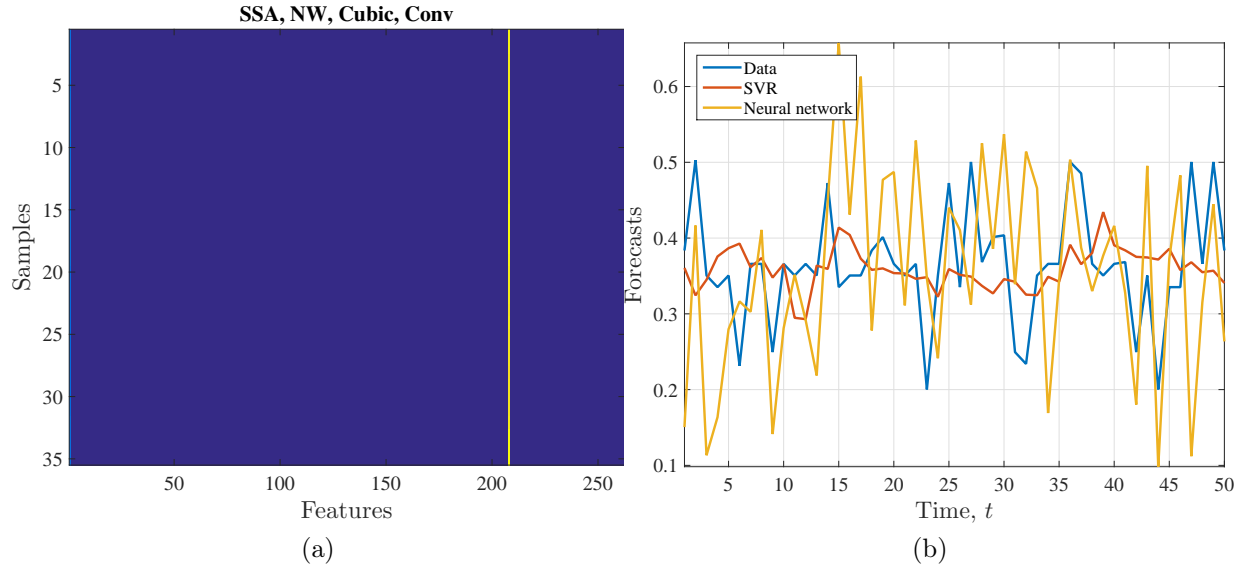


Рис. 82: (a) Feature generation results for HASC1183. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1183. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

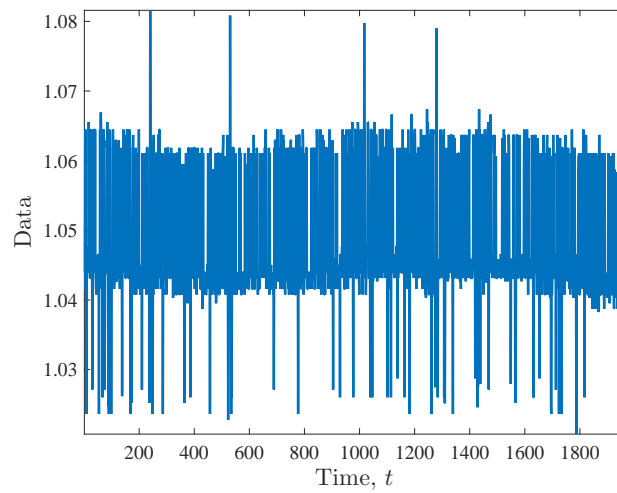


Рис. 83: Accelerometry time series from HASC project Target time series HASC1184

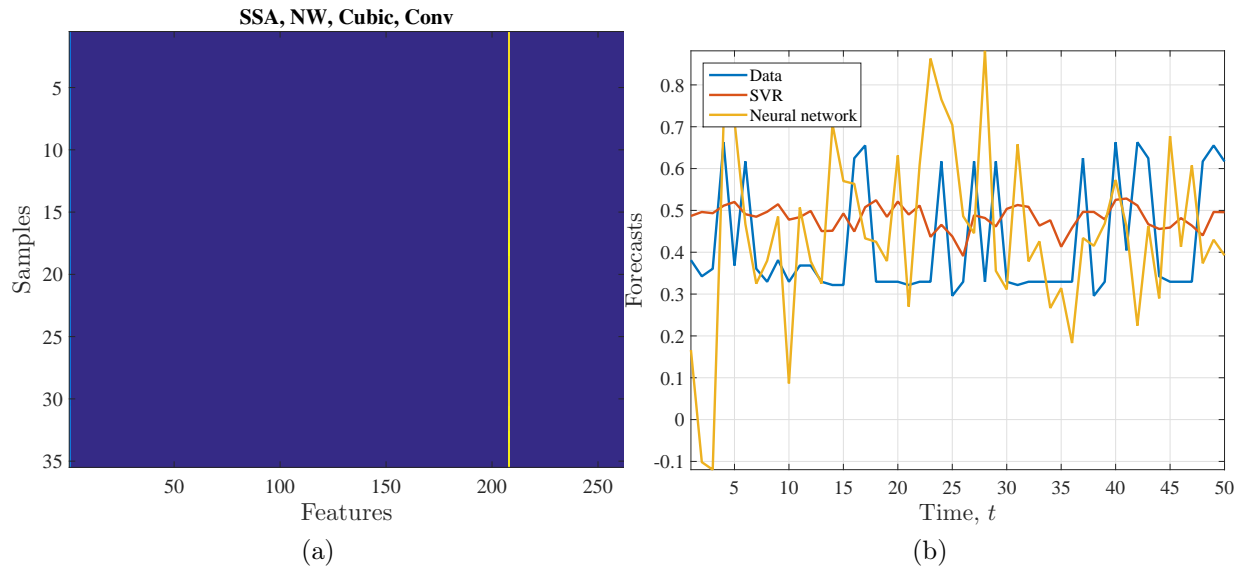


Рис. 84: (a) Feature generation results for HASC1184. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1184. SVR, Neural network Error exceeds 1000 for the following models: VAR. The forecasts for VAR are not displayed.

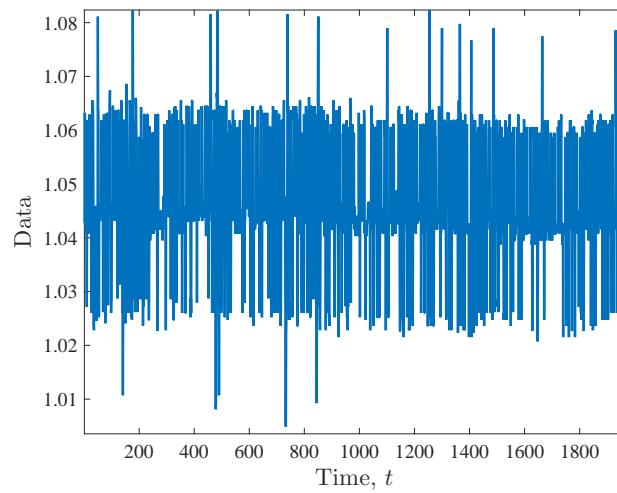


Рис. 85: Accelerometry time series from HASC project Target time series HASC1185

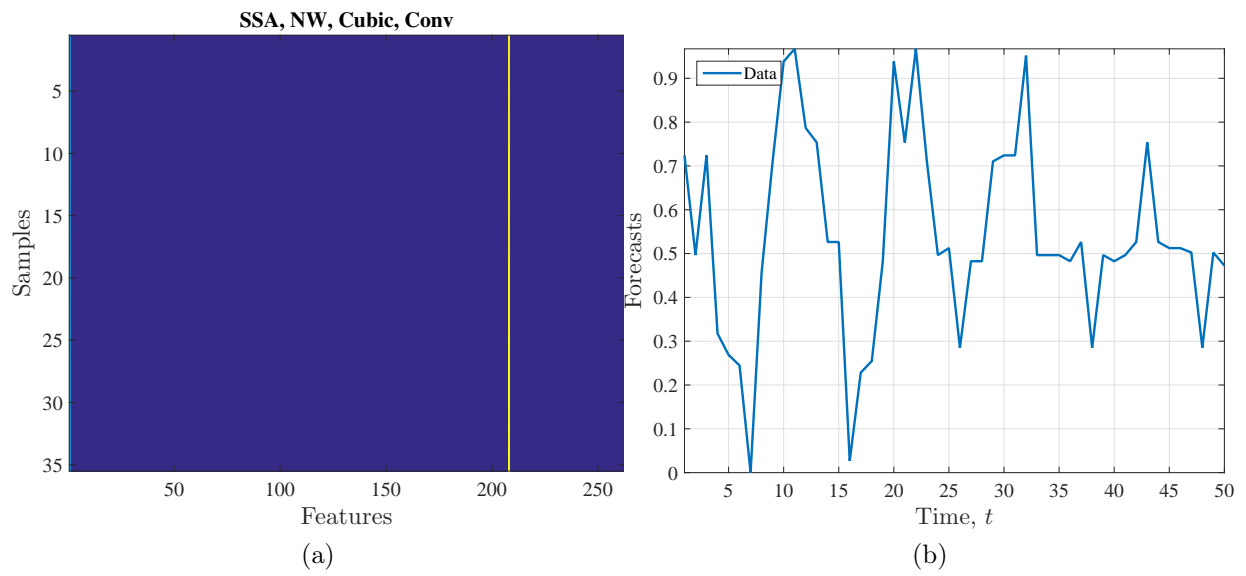


Рис. 86: (a) Feature generation results for HASC1185. SSA, NW, Cubic, Conv (b) Forecasting results for HASC1185. Error exceeds 1000 for the following models: VAR, SVR, Neural network. The forecasts for VAR, SVR, Neural network are not displayed.