Relatório (escolher o nome depois)

Universidade Federal da Paraíba - CCEN

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16 de agosto de 2024

Introdução

Metodologia

Resultados

Análise exploratória

a) tabela de eventosresultado da empirica

tempo	intervalo	falhas	censura	amplitude	risco	S(t)	f(t)	h(t)	H(t)
1	[0.958, 1.98)	47	66	1.022	2453	1.0000	0.0187	0.0187	0.0000
2	[1.98, 2.95)	41	47	0.970	2340	0.9539	0.0172	0.0181	0.0472
3	[2.95, 3.93)	32	33	0.980	2252	0.9181	0.0133	0.0145	0.0855
4	[3.93, 4.91)	30	33	0.980	2187	0.8916	0.0125	0.0140	0.1148
5	[4.91, 5.88)	29	37	0.970	2124	0.8659	0.0122	0.0141	0.1440
6	[5.88, 6.86)	22	25	0.980	2058	0.8390	0.0092	0.0109	0.1756
7	[6.86, 7.84)	25	40	0.980	2011	0.8198	0.0104	0.0127	0.1987
8	[7.84, 8.81)	18	39	0.970	1946	0.7933	0.0076	0.0095	0.2315
9	[8.81, 9.79)	32	43	0.980	1889	0.7701	0.0133	0.0173	0.2613
10	[9.79, 10.8)	19	36	1.010	1814	0.7395	0.0077	0.0104	0.3018
11	[10.8, 11.7)	31	35	0.900	1759	0.7171	0.0140	0.0196	0.3326
12	[11.7,12.7)	27	47	1.000	1693	0.6902	0.0110	0.0159	0.3708
13	[12.7, 13.7)	22	36	1.000	1619	0.6600	0.0090	0.0136	0.4155
14	[13.7,14.7)	13	27	1.000	1561	0.6364	0.0053	0.0083	0.4520
15	[14.7, 15.7)	25	23	1.000	1521	0.6201	0.0102	0.0164	0.4779
16	[15.7, 16.6)	10	24	0.900	1473	0.6005	0.0045	0.0075	0.5100
17	[16.6, 17.6)	11	38	1.000	1439	0.5866	0.0045	0.0076	0.5334
18	[17.6, 18.6)	11	28	1.000	1390	0.5667	0.0045	0.0079	0.5680
19	[18.6, 19.6)	12	24	1.000	1351	0.5508	0.0049	0.0089	0.5965
20	[19.6, 20.5)	15	14	0.900	1315	0.5361	0.0068	0.0127	0.6235
21	[20.5, 21.5)	15	31	1.000	1286	0.5243	0.0061	0.0117	0.6458
22	[21.5, 22.5)	14	31	1.000	1240	0.5055	0.0057	0.0113	0.6822
23	[22.5, 23.5)	11	30	1.000	1195	0.4872	0.0045	0.0092	0.7192
24	[23.5, 24.4)	7	33	0.900	1154	0.4704	0.0032	0.0067	0.7541
25	[24.4,25.4)	13	28	1.000	1114	0.4541	0.0053	0.0117	0.7894
26	[25.4, 26.4)	7	16	1.000	1073	0.4374	0.0029	0.0065	0.8269
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tempo	intervalo	falhas	censura	amplitude	risco	S(t)	f(t)	h(t)	H(t)
27	[26.4,27.4)	14	14	1.000	1050	0.4280	0.0057	0.0133	0.8485
28	[27.4, 28.3)	12	17	0.900	1022	0.4166	0.0054	0.0130	0.8756
29	[28.3, 29.3)	10	19	1.000	993	0.4048	0.0041	0.0101	0.9043
30	[29.3, 30.3)	14	9	1.000	964	0.3930	0.0057	0.0145	0.9340
31	[30.3, 31.3)	10	12	1.000	941	0.3836	0.0041	0.0106	0.9581
32	[31.3, 32.3)	11	29	1.000	919	0.3746	0.0045	0.0120	0.9818
33	[32.3, 33.2)	7	18	0.900	879	0.3583	0.0032	0.0088	1.0263
34	[33.2, 34.2)	4	18	1.000	854	0.3481	0.0016	0.0047	1.0551
35	[34.2, 35.2)	8	20	1.000	832	0.3392	0.0033	0.0096	1.0812
36	[35.2, 36.2)	15	25	1.000	804	0.3278	0.0061	0.0187	1.1155
37	[36.2, 37.1)	8	22	0.900	764	0.3115	0.0036	0.0116	1.1665
38	[37.1, 38.1)	11	18	1.000	734	0.2992	0.0045	0.0150	1.2066
39	[38.1, 39.1)	5	13	1.000	705	0.2874	0.0020	0.0071	1.2469
40	[39.1,40.1)	8	19	1.000	687	0.2801	0.0033	0.0116	1.2727
41	[40.1,41)	2	16	0.900	660	0.2691	0.0009	0.0034	1.3128
42	[41,42)	3	34	1.000	642	0.2617	0.0012	0.0047	1.3405
43	[42,43)	5	600	1.000	605	0.2466	0.0020	0.0083	1.3998

n	events	dropou	t a tRisk hazard	seHazard	S	seS	cumHazaaeCumHazaaedgProb
${2453}$	47	66	2420.0 0.01942	1 6 .002805 8	.980578 0	.00280	50 .019421 5 .00283290.0194215
2340	41	47	2316.5 0.01769	90.0027396	.9632230	.00384	84 .037120 6 .00395800.0173554
2252	32	33	2235.50.01431	46 .002512 6	.9494350	.00449	94 .051435 0 .00469780.0137880
2187	30	33	2170.50.01382	10.0025060	.936312 0	.00503	49 .065256 8 .00533260.0131228
2124	29	37	2105.50.01377	3 6 .002540 0	.9234160	.00550	5 $\overline{0}.079030$ $\underline{0}.00591430.0128963$
2058	22	25	2045.50.01075	5 ∂ .002280 ∅	.9134840	.00583	9 5 .089785 5 .00634320.0099316
2011	25	40	1991.00.01255	6 6 .002495 6	.9020140	.00620	04.1023420.00682230.0114702
1946	18	39	1926.50.00934	3 4 .002191 9	.893586	.00645	28 .111685 4 .00716890.0084279
1889	32	43	1867.50.01713	50 .003003 0	.8782746	.00688	66 .128820 6 .00778260.0153118
1814	19	36	1796.00.01057	90.0024140	.868983 0	.00713	60 .139399 0 .00815220.0092913
1759	31	35	1741.50.01780	0 0 .003168 0	.853514	.00753	04.1572004.00875670.0154686
1693	27	47	1669.50.01617	25 .00308 70	.839711 0	.00786	30 .173372 9 .00929340.0138035
1619	22	36	1601.00.01374	1 4 .002909 5	.828172 0	.00813	09 .187114 0 .00974430.0115388
1561	13	27	1547.50.00840	0 6 .002320 0	.821215 0	.00828	84 .195515 0 .01001890.0069572
1521	25	23	1509.50.01656	10.0032840	.807614 6	.00858	59 .212076 8 .01055230.0136008
1473	10	24	1461.0 0.00684	46.0021570	.802086 0	.00870	36 .218921 4 .01077200.0055278
1439	11	38	1420.00.00774	6 6 .002326 6	.795873 0	.00883	50 .22666 79 .01102230.0062133
1390	11	28	1376.00.00799	40 .002400 0	.7895110	.00897	04 .234662 0 .01128280.0063624
1351	12	24	1339.0 0.00896	1 9 .002575 0	.782435 0	.00911	96.2436240.01157560.0070755
1315	15	14	1308.0 0.01146	79 .002944 0	.773462 6	.00930	46.2550919.01194830.0089729
1286	15	31					80 .266898 0 .01233100.0091318
1240	14	31	1224.50.01143	3 0 .003038 0	.7555920	.00966	36 .278331 6 .01270400.0087388
1195	11	30					40 .287653 6 .01301120.0070437
1154	7	33					70 .29380 74 .01321750.0046065
1114	13	28					60 .305625 0 .01361780.0087920
1073	7	16					39 .312198 0 .01384260.0048320
1050	14	14					9 0 .325621 0 .01429990.0098029
1022	12	17					48 .337461 8 .01470270.0085310
993	10	19					36 .347629 0 .01505010.0072393
964	14	9					59 .362220 0 .01554710.0102829
941	10	12	935.0 0.01069	5 0 .003364 0	.687034 0	.01100	0 6 .372915 0 .01591080.0074274
919	11	29					16 .385076 6 .01632780.0083553
879	7	18					12 .393122 6 .01660860.0054606
854	4	18					0 2 .397856 9 .01677640.0031868
832	8	20					$2 \[0.407588 \[0.01712560.0065210 \]$
804	15	25					79 .426540 0 .01781100.0125744
764	8	22	753.0 0.01062	40.0037360	.644020 6	.01179	78 .437164 9 .01820280.0069157

n	events	dropou	tatRisk	hazard	seHazard	S	seS	cumHazasaCumHazasadgProb
734	11	18	725.0	0.01517	24 .004539 8	.634249 0	.011980	06.4523366.01876880.0097713
705	5	13	698.5	0.00715	80.0031890	.6297090	.012065	50.4594940.01903990.0045401
687	8	19	677.5	0.01180	80.0041500	.622273 @	.012206	60 .471302 9 .01949220.0074357
660	2	16	652.0	0.00306	7 6 .002165 0	.6203646	.012243	30 .474370 0 .01961250.0019088
642	3	34	625.0	0.00480	00.0027646	.617386 0	.012304	45 .479170 4 .01980730.0029778
605	5	600	305.0	0.01639	30 .007271 0	.607265 0	.012908	8 5 .495563 8 .02112060.0101211

1 2453 47 66 0.00276790279039808398627997542993191602022 0.018747801838 2 2340 41 47 0.003806303910.963656.9711393562267336680.970 0.0180663.1744 3 2252 32 33 0.0044562004648.949960.95873.04412709550890.2980 0.014499601377 4 2187 30 33 0.004988205280236930.9467507927204.064608.980 0.013997.01313 5 2124 29 37 0.00545650505850.9241370.934890.913500.078262.070 0.0140705.91300 6 2058 22 25 0.005790.062850.914256.025678.30129707.088952.080 0.0190820.9997 7 2011 25 40 0.006148.006759.002890.915024.890920.213833380 0.0126853.1145 8 1946 18 39 0.006398.907102.894540.907170.88208021.10633.4970 0.009535050855 9 1889 32 43 0.006828.907707.8793807.892873.86610.08247573080 0.0172859.9152 10 1814 19 36 0.00776.008073.870176.8941.20882661.038.27573.0800 0.015948.01341 12 1693 27	an	e n.risk	n.evei	nta.cens	$ m_{soutd.err\ std.chaz\ S(t)}$ upper lower cumhazamplitude	$\overline{(t)}$ $f(t)$
2 2340 41 47 0.003804303910.4963654.971139.39562267036680.970 0.01806331744 3 2252 32 33 0.00445620046485949960.958730.4941270.950890.2980 0.014499601373 4 2187 30 33 0.004988205280236930.9946757.9927204.064608.980 0.013997.41313 5 2124 29 37 0.00545650505857.924137.934890.313504778262.970 0.01407638130 6 2058 22 25 0.005790.006286.2914256.925678.30297070.88950.D80 0.010908200997 7 2011 25 40 0.006146.006759.002890.9915024.89099202.013830.780 0.0109580301526 8 1946 18 39 0.006398907102.894540.4907170.8820872110633.970 0.0095308085 9 1889 32 43 0.006828.30770738073887.592873.86610038.27573.980 0.01728091526 10 1814 19 36 0.007706208073.870176.8841578.5641078.3804T.010 0.010370409092 12 1693 27 47 0.00770620873.87176.87457.38620068.20663.71619.000 0.0159480.0112 14 1561						
4 2187 30 33 0.0049882052802369309467579927204.D64608980 0.013997.01313 5 2124 29 37 0.005456305857424137.934894.3913504.778262.D70 0.014076381300 6 2058 22 25 0.005790.4062852914258.025678.302970.7088952.D80 0.010908200997 7 2011 25 40 0.006148.406759.D02892.915024.890922.2101383.7980 0.012685.31148 8 1946 18 39 0.006398.907102.894540.907170.8820872.10633.970 0.009535.80855 9 1889 32 43 0.006828.3077075.79387.892873.26610.827573.980 0.017285.91520 10 1814 19 36 0.00776208073.870176.8824576.5664108.38047.010 0.010370.40090 11 1759 31 35 0.007468.308670.854840.269600.8412.0825.56670.900 0.019580.8167 12 1693 27 47 0.007796.009198.8412.08.256628.626065.371619.4000 0.013588.60112 14 1561 13 27 0.008210909917.822866.8339136.8069128.93536.000 0.00832800688 15 1521 25			41			
5 2124 29 37 0.0054565050585749241376934894313504D782662B70 0.014076501300 6 2058 22 25 0.00579040628632142586925678302979D88952B80 0.010908200997 7 2011 25 40 0.006148A06759B02892915024A909222101383B980 0.012685301148 8 1946 18 39 0.006398907102694540.4907170.482087210633.4970 0.00953580853 9 1889 32 43 0.006828307700737938078928763.2661058275763980 0.01728591520 10 1814 19 36 0.007762080763.87017638415038564105838047.010 0.010370.00990 11 1759 31 35 0.007468308670.854840.2696063.871619.400 0.019580.81673 12 1693 27 47 0.0077965091983.41208.2566286.260663.71619.400 0.015594801341 13 1619 22 36 0.008062.409644.8297703.45730.8141298.85208000 0.013588601122 14 1561 13 27 0.008219.9091078.228669.39136.8069128.935366000 0.001643660133 15 1521 25 23	3	2252	32	33	0.00445 42 0464 8 5 9 4996 0 . 9 5873 0 . 9 412 703 05089 0 2 9 80 0.0	1449 9 £0137
6 2058 22 25 0.00579040628521425869256783022970788952380 0.0109082009997 7 2011 25 40 0.00614840675919028902915024489092021013833980 0.012685301148 8 1946 18 39 0.006398907100269454040717048820872106334970 0.009535800853 9 1889 32 43 0.0068283077007379387789287632661058275736980 0.017285901526 10 1814 19 36 0.00707620807348701763844150656410583275736980 0.010370400902 11 1759 31 35 0.007468308670485484026966048403282556704900 0.019580801673 12 1693 27 47 0.007796509197834120828566286260653.71619400 0.0155948001341 13 1619 22 36 0.00806240996443297703457308141248.85208000 0.013588601127 14 1561 13 27 0.008210909910762286663391364069128.935366000 0.0164366013336 16 1473 10 24 0.008530106666803840320952.78709832167604900 0.007543200606 18 1390 11 28	4	2187	30	33	0.0049 8\$2 052 802 369 309 4675 79 2720 4 .06460 \$9 80 0.0	1399 7. 01311
7 2011 25 40 0.006148.406759.902890.915024.890922.201383.780 0.012685.30114.8 8 1946 18 39 0.006398.907102.894540.407170.8820872.10633.4970 0.009535.8085.3 9 1889 32 43 0.006828.307707.879387.892873.8661058.27573.6980 0.017285.91520.0 10 1814 19 36 0.007076.208073.470170.884157.85641078.38047.701 0.010370.40990.0 11 1759 31 35 0.007468.308670.854840.2869604.8403.282.55670.400 0.019580.80167.3 12 1693 27 47 0.007796.509198.841208.256628.826065.371619.400 0.015948.00134.1 13 1619 22 36 0.00806.2409644.329770.345730.8141.248.85208.000 0.013588.0112.7 14 1561 13 27 0.008219.9099107.822866.8339136.806910.893536.000 0.016436.00133.0 15 1521 25 23 0.008518.30104.407.809340.826210.7928107.309972.000 0.01643.60613.30 16 1473 10 24 0.008635.801066.8038407.32095.7787098.216760.4900 0.007548.20606.0 18	5	2124	29	37	0.0054 565 00585 7.9 2413 7.9 3489 4.3 1350 4.7 07826 2.1 970 0.0	14075801300
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9 1889 32 43 0.00682830777075793807389287328661058275736980 0.01728591522 10 1814 19 36 0.007076208073487017638415738564178380477010 0.01037040909 11 1759 31 35 0.00746830867035484028696043403282556704000 0.01958031675 12 1693 27 47 0.0077965091983841208285662836260653716194000 0.015948001345 13 1619 22 36 0.00806040964433297703845730814129885208000 0.01358860112 14 1561 13 27 0.00821090099107682286638391364069102893536000 0.00832800683 15 1521 25 23 0.0085183010440780934038262107792810730992167604900 0.016436601336 16 1473 10 24 0.00863530106666803840382095277870982167604900 0.00775462206069 18 1390 11 28 0.00890020111700791389380902957741342323319300 0.007764420609 20 1315 15 14 0.0090503114605784360402300.7668202941201600 0.01166400893 21 1286 15 31	7	2011	25	40	0.00614 8 .40675 9 .90289 2.9 15024.89092 2 210138 3.7 980 0.0	1268 53)1145
10 1814 19 36 0.007076208073487017638841573656417838047.010 0.010370409092 11 1759 31 35 0.007468308670.854840.269604.840328255670.4900 0.019580.801673 12 1693 27 47 0.007796509198.841208.256628.6260653.71619.400 0.015948.001341 13 1619 22 36 0.008062.409644.3829770.345730.8141248.85208.000 0.013588.601127 14 1561 13 27 0.0082109009917.822866.8339136.806910.8193536.000 0.008328.00688 15 1521 25 23 0.008518.3010447.809340.826210.7792817.209972.600 0.016436.0133 16 1473 10 24 0.008635.010666.803847.820952.7787098.216760.900 0.007546.2066.66 17 1439 11 38 0.008766.3010912.797702.815070.78700.780704.22440.5000 0.007644.2066.66 18 1390 11 28 0.008900.201117.007913.890.80092.9774134.223319.3000 0.007913.7062.626 20 1315 15 14 0.0092.30318.822.75410.3793730.757518.252608.4000 0.0112674.3098.5 21	8	1946	18	39	0.00639 8 900710 2 (8 9454 0 .490717 0 .488208 72 1063 3 .4970 0.0	0953 5 200853
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	27	1050	14	14	0.01029 8 501415 6 572289 9 874336 9 070299 42 32236 0 5000 0.0	1333 33 00963
29 993 10 19 0.01060@4.D1490@970721 73 72830 93 58673@3B4417 2.7 000 0.01007 0 500713	28	1022	12	17	0.01046 5 .D1455 6 6 7 1441 0.7 73522 0 2 6 9419 2.3 33410 22 900 0.0	1304 63 00932
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time	e n.risl	kn.ever	nta.cens	soutd.err std.chaz S(t) upper lower cumhazamplitudæ(t)	f(t)
30	964	14	9	0.010 7995 01539 8 .6969 465 71843 75 67609 83 5869 55 000 0.01452	28 0101216
31	941	10	12	0.01093 5 301576 0 358954 0 371131 0 366843 6 36932 2 5000 0.01062	7. 0073277
32	919	11	29	0.01108 4.4 01616 8.5 8128 6 .70336 0. 755990 4.2 8129 2 .0000 0.01196	95 0081547
33	879	7	18	0.01118 42 01644 62 57586 0 .159814 0 .155429 2 .188925 5 .6900 0.00884	8 .40059803
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35	832	8	20	0.0113 65.0 1695 6.6 6622 7.2 888 79.5 4431 9.4 0355 4.3 00 0.00961	5. 0064060
36	804	15	25	0.01159 7 £01762 7 £65379 7 £67692 8 £63145 7 £42221 1 £500 0.01865	6.7 0121977
37	764	8	22	0.0117 26 . 0 1801 2 . 6 4695 0 . 6 67034 72 52437 2 .443268 2 .7900 0.01163	4.7 0075271
38	734	11	18	0.01190 9 .0185 70 .63725 6 .66103 02 51433 7 .044766 9 .000 0.01498	6. 40095502
39	705	5	13	0.011994.9018839.6632736.5656688.46096583454761.3000 0.00709	Q2 0044875
40	687	8	19	0.01213 4 \$\display1928 3 \$\display2536 8 \$\display4961 0 \$\display203 0 246640 6 2000 0.01164	4 \$0072823
41	660	2	16	0.0121 70 \$\mathbb{0}1940 2 \$\mathbb{0}234 73 \$\mathbb{0}4779 2 \$\mathbb{0}0006 7 \$\mathbb{0}43 \mathbb{0}3 \mathbb{0}00 0.00336	7 @020992
42	642	3	34	0.0122 30 601958 9 662056 0 664500 0 59704 5 47410 9 4000 0.00467	29 028998
43	605	5	600	0.01234 2.7 01993 4.6 61543 0. 464010 4. 459170 9. 48237 3. \$000 0.00826	4 50050862