

Table SPBS-7

## S&amp;E articles in computer and information sciences, fractional count, by region, country, or economy: 1996–2020

(Number)

Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
World	45,476.00	47,085.00	51,149.00	51,407.00	56,785.00	61,104.00	68,550.00	82,386.00	104,797.00	133,242.00	148,835.00	161,760.00	185,303.00	207,951.00	228,726.00	220,202.00	219,102.00	206,505.00	203,377.00	212,450.00	232,984.00	242,002.00	264,249.00	300,118.00	286,686.00
North America	17,267.91	17,576.78	17,808.16	17,551.48	18,676.85	18,609.33	21,101.54	25,409.93	29,374.23	35,591.15	37,249.36	37,249.32	36,641.82	36,585.92	36,804.05	37,101.13	36,634.35	36,066.30	34,142.03	35,567.61	36,325.82	36,047.20	37,832.55	40,375.31	36,802.57
Canada	1,982.75	1,990.73	1,812.61	1,982.19	2,085.64	2,152.94	2,657.33	3,368.50	4,218.99	5,327.56	5,938.70	6,055.39	5,883.83	6,218.79	6,061.20	5,799.99	6,014.91	5,627.73	5,424.33	5,440.16	5,555.22	5,307.41	5,479.90	5,677.67	5,879.71
Greenland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00
Mexico	74.93	55.73	112.04	109.45	157.36	172.93	189.01	341.70	569.05	720.65	782.07	752.52	781.67	844.69	804.80	843.83	824.51	1,059.37	1,045.69	1,031.58	1,019.42	1,020.77	1,113.28	1,324.40	1,336.89
United States	15,210.23	15,530.32	15,883.50	15,459.84	16,433.85	16,283.47	18,255.20	21,699.73	24,586.20	29,542.95	30,528.60	30,441.41	29,976.33	29,522.45	29,938.05	30,457.31	29,794.84	29,379.21	27,672.01	29,095.87	29,750.68	29,719.03	31,239.36	33,373.25	29,585.97
Central America and Caribbean	18.11	16.39	16.46	17.98	17.28	17.35	25.15	65.20	60.09	82.89	89.97	116.05	112.02	114.14	131.94	112.02	137.64	164.95	167.12	143.80	138.65	176.29	229.43	239.25	193.94
Antigua and Barbuda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00
Bahamas, The	0.00	0.00	0.00	1.00	1.00	1.00	0.33	0.00	0.00	1.50	0.50	0.00	0.25	1.58	1.50	0.50	0.00	0.00	0.33	0.00	0.13	0.00	0.00	0.50	0.00
Barbados	0.00	0.00	0.00	2.00	0.00	2.00	2.25	5.00	4.50	2.00	1.00	2.20	5.25	0.07	0.00	2.70	0.00	2.00	2.25	2.00	4.67	2.00	3.00	4.00	0.00
Belize	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	1.10	0.00	0.40	0.00	0.00	0.00
Costa Rica	0.00	1.25	1.75	1.13	0.25	2.13	1.33	1.50	6.33	6.58	9.58	4.38	3.72	2.20	5.13	5.90	22.84	26.13	22.84	32.08	24.20	23.65	66.43	57.16	62.90
Cuba	3.98	1.00	5.54	3.27	6.01	5.44	9.82	13.70	11.29	36.12	38.93	45.32	53.69	38.64	62.71	50.46	59.00	87.76	82.93	53.18	52.31	54.78	96.03	82.39	54.42
Dominica	0.00	0.50	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.33	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.25
Dominican Republic	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.33	0.00	0.00	1.00	0.20	1.00	0.17	0.83	0.00	0.63	0.61	0.95	1.28	4.17	3.82
El Salvador	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.63	0.33	0.00	0.33	0.83	0.00	1.17	2.25	0.25
Grenada	0.00	0.10	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.33	0.00	0.50	0.00	0.33	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00
Guatemala	0.00	0.00	0.33	0.25	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	1.00	0.70	2.33	1.75	4.50	2.83	3.96	6.17	6.07	9.30	8.47	2.50	3.58
Haiti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	1.33	0.00	0.17	0.00	0.38	0.25	0.17	0.00	0.00	0.00
Honduras	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.25	0.33	0.50	0.00	0.10	0.45	0.00	0.20	0.20	0.00	1.00	1.42	8.98	15.01
Jamaica	3.50	2.00	0.00	1.00	2.60	0.00	3.33	9.50	6.75	8.00	6.17	6.83	12.20	17.99	13.92	11.42	10.25	16.70	14.50	11.97	11.42	14.83	15.21	6.00	9.25
Nicaragua	0.00	0.00	0.00	0.00	0.00	1.00	0.25	0.00	0.25	0.50	0.50	0.50	1.38	0.00	0.97	0.17	0.50	0.17	0.00	0.25	3.89	0.17	0.27	2.25	1.33
Panama	0.00	0.00	0.00	0.00	0.50	0.00	0.50	0.00	0.50	1.00	1.17	0.00	1.57	4.29	2.27	1.95	7.57	4.72	7.83	4.52	3.62	5.49	4.80	23.43	10.91
Puerto Rico	10.60	10.50	7.83	7.83	5.92	3.50	6.33	28.25	25.38	19.75	28.01	46.08	25.21	25.34	25.74	18.46	22.90	12.98	19.65	15.35	20.00	37.84	24.44	23.18	22.04
Saint Kitts and Nevis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Saint Lucia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00
Saint Vincent and the Grenadines	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trinidad and Tobago	0.00	1.04	0.00	1.00	1.00	2.00	1.00	7.25	3.92	6.58	3.45	9.67	6.92	20.83	16.58	16.28	7.50	10.33	12.63	15.67	10.67	25.08	6.92	20.10	10.15
South America	311.07	426.53	624.42	618.72	725.69	787.52	1,023.36	1,069.06	1,485.52	1,729.28	2,334.26	2,419.34	2,840.06	2,977.13	3,226.95	3,477.86	4,130.16	4,141.71	4,711.90	4,764.32	5,532.99	6,045.39	7,176.66	7,714.53	7,281.64
Argentina	22.48	34.30	34.30	51.21	61.55	54.20	76.24	43.25	86.29	122.14	150.71	176.33	215.18	207.30	236.42	251.49	261.36	221.36	293.29	244.27	288.79	283.85	329.06	321.56	263.67
Bolivia	0.00	0.00	0.36	0.50	0.00	0.00	0.50	0.00	1.00	0.00	0.67	0.25	1.83	0.67	1.45	0.91	0.25	0.56	3.00	1.75	2.83	2.65	6.99	8.08	6.32
Brazil	232.35	338.43	533.84	498.61	580.12	637.96	821.13	885.76	1,206.03	1,360.11	1,782.38	1,808.99	2,153.25	2,171.26	2,397.23	2,583.74	2,991.53	3,125.65	3,442.69	3,302.86	3,756.50	4,091.97	4,355.73	4,603.45	4,318.45
Chile	25.02	26.16	21.97	40.07	33.33	41.49	56.20	74.16	107.27	128.13	174.05	213.59	221.70	273.36	229.64	248.00	270.45	290.43	352.84	351.36	435.84	383.60	504.29	571.76	506.69
Colombia	5.47	2.85	6.77	6.33	11.32	7.89	12.68	31.29	30.13	40.03	87.20	90.22	136.21	214.94	207.77	277.31	441.26	330.15	389.50	553.64	551.56	607.23	892.69	920.93	893.95
Ecuador	1.02	1.00	0.57	0.33	2.00	0.00	0.17	1.00	1.00	1.34	6.17	6.70	3.71	5.84	15.07	6.70	13.57	21.00	39.03	111.01	266.48	373.24	711.15	743.83	818.86
Guyana	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.50	0.00	0.25	0.00	0.05	0.00	0.00	0.00	0.00

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Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Paraguay	0.33	0.00	0.00	0.00	0.00	4.00	0.25	1.00	6.83	1.29	6.62	3.00	5.54	4.36	4.74	7.15	5.25	12.56	12.11	23.71	14.75	25.57	11.96	24.98	14.18
Peru	0.07	0.10	0.25	0.07	0.00	0.13	0.17	0.00	1.09	2.30	8.63	12.30	15.41	12.48	18.31	23.42	20.93	25.51	37.40	69.80	102.57	177.60	256.99	397.04	351.25
Suriname	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Uruguay	1.50	1.87	7.17	3.25	6.75	7.57	10.83	6.57	9.20	14.59	19.74	20.55	18.85	27.50	38.25	41.24	59.39	52.93	68.05	71.56	84.25	61.38	73.03	90.29	73.79
Venezuela	21.83	21.81	19.19	18.35	30.63	34.28	45.19	26.03	36.67	59.34	98.10	87.42	67.88	59.43	78.07	37.90	65.67	60.85	73.75	34.36	29.37	37.30	34.77	32.61	34.46
Europe	15,752.91	15,986.29	18,620.07	17,965.09	20,737.12	21,655.48	24,346.78	28,362.50	34,296.16	42,855.52	48,031.97	53,541.50	57,887.75	61,523.35	66,435.09	66,221.52	67,273.74	68,357.56	66,621.66	69,161.01	70,393.93	71,514.07	72,905.48	77,810.14	76,027.51
EU-27 and UK <sup>a</sup>	13,783.22	14,214.72	15,784.52	15,630.15	18,277.13	18,816.08	21,341.85	24,866.65	30,214.44	37,982.57	42,658.73	47,549.32	51,828.19	54,889.30	58,619.25	58,363.25	58,771.96	59,566.89	57,842.39	58,639.28	57,776.16	56,690.58	57,976.14	60,990.19	58,323.47
UK	2,554.97	2,531.29	2,753.83	2,864.55	3,194.53	3,278.81	3,561.43	4,049.63	4,751.67	6,096.80	6,746.08	7,248.39	7,682.70	7,844.41	8,123.00	7,653.03	7,270.60	7,824.80	7,460.81	7,817.55	7,833.48	8,107.85	7,910.51	8,269.02	7,746.52
EU-27 <sup>b</sup>	11,228.25	11,683.43	13,030.69	12,765.60	15,082.59	15,537.27	17,780.42	20,817.03	25,462.77	31,885.77	35,912.65	40,300.93	44,145.49	47,044.88	50,496.25	50,710.22	51,501.35	51,742.10	50,381.58	50,821.73	49,942.68	48,582.73	50,065.64	52,721.17	50,576.95
Austria	275.83	318.19	303.33	313.34	380.83	426.87	539.52	622.68	659.52	962.55	1,112.50	1,312.31	1,390.08	1,600.67	1,658.15	1,686.67	1,757.71	1,756.41	1,711.38	1,789.56	1,704.36	1,700.92	1,776.63	1,748.34	1,582.38
Belgium	375.13	376.38	435.23	386.92	463.13	478.47	556.27	684.78	723.78	997.68	1,125.33	1,161.27	1,332.21	1,275.10	1,341.87	1,407.47	1,420.49	1,345.67	1,275.22	1,294.62	1,300.50	1,197.60	1,277.78	1,341.56	1,291.99
Bulgaria	61.53	64.50	55.20	29.81	51.75	78.28	63.31	102.11	121.32	107.91	107.37	223.89	237.63	188.95	269.29	284.59	239.87	216.33	200.94	225.87	235.88	288.96	276.17	370.83	751.30
Croatia	30.33	31.04	54.50	41.33	120.20	82.13	75.96	234.68	203.65	339.72	355.68	389.57	423.89	487.59	455.26	493.72	471.92	404.16	358.94	403.96	377.70	406.28	441.36	468.27	496.02
Cyprus	8.42	25.41	17.48	20.42	37.42	21.87	31.25	33.14	48.45	69.14	98.48	90.76	106.27	122.73	116.48	143.02	166.08	177.76	158.36	153.44	213.19	221.61	167.98	213.21	206.98
Czechia	136.38	147.19	165.13	181.44	210.59	246.39	288.80	391.27	474.16	654.00	814.84	1,039.05	1,184.26	1,181.92	1,372.43	1,591.19	1,405.81	1,388.21	1,341.36	1,639.41	1,478.04	1,578.54	1,383.90	1,530.94	1,269.24
Denmark	222.13	224.20	238.54	243.29	276.88	255.77	301.40	308.28	398.17	481.58	557.89	625.46	612.32	693.82	732.68	798.54	859.78	918.40	917.45	908.43	985.28	896.11	979.82	923.30	1,037.77
Estonia	4.39	5.20	8.67	4.50	11.58	10.93	18.99	25.24	28.27	41.83	49.89	62.39	82.51	84.88	145.43	140.56	133.45	140.11	179.30	165.82	177.94	188.71	163.51	235.76	228.96
Finland	368.67	423.90	463.22	502.00	664.03	570.60	736.27	793.55	1,055.26	1,261.19	1,446.23	1,406.30	1,358.50	1,439.71	1,461.52	1,472.53	1,459.43	1,610.09	1,460.26	1,518.02	1,556.67	1,433.01	1,534.33	1,540.81	1,427.36
France	2,236.32	2,088.36	2,283.77	2,171.78	2,593.03	2,450.49	3,065.65	3,299.93	3,829.12	5,162.36	5,681.73	6,105.09	6,893.05	7,160.41	7,391.05	7,452.12	7,822.36	7,689.55	7,838.84	7,608.55	7,402.81	6,899.21	7,018.88	6,815.14	5,960.68
Germany	2,843.12	2,968.38	3,356.81	3,056.50	3,245.41	3,469.92	3,571.65	4,276.77	5,057.73	6,570.38	7,222.45	7,728.55	9,154.11	9,605.18	10,676.25	10,006.48	10,388.36	10,747.66	10,304.07	10,079.49	10,027.25	9,907.75	10,519.54	11,424.27	10,942.73
Greece	304.95	345.10	405.78	394.69	592.76	556.47	674.55	735.08	1,030.55	1,294.35	1,472.17	1,662.75	1,835.95	1,831.97	1,765.70	1,721.90	1,831.59	1,734.22	1,834.41	1,787.05	1,725.71	1,534.12	1,677.03	1,779.20	1,802.70
Hungary	105.54	142.23	140.51	176.73	183.82	202.11	216.00	241.79	309.91	409.67	446.52	615.02	559.42	620.86	560.78	684.07	686.68	749.93	674.09	583.72	717.74	688.88	700.23	842.09	806.48
Ireland	69.69	73.41	95.78	99.92	130.13	140.43	215.62	278.84	466.59	632.40	756.80	861.27	824.77	935.05	1,018.65	876.98	871.60	850.90	806.24	762.29	872.81	846.62	854.84	904.61	941.32
Italy	1,632.64	1,744.80	1,711.04	1,787.22	2,102.15	2,214.98	2,453.79	2,940.73	3,458.12	4,206.40	4,328.62	4,896.65	5,117.39	5,550.59	5,640.12	5,710.53	5,563.74	6,289.54	5,944.56	6,182.41	6,087.59	6,376.52	6,213.24	6,784.60	6,576.47
Latvia	39.77	49.63	38.39	34.37	21.58	36.17	12.62	29.28	19.92	56.86	49.86	48.60	78.15	87.35	141.38	165.73	166.42	155.40	138.99	189.38	219.20	158.76	156.88	207.47	190.99
Lithuania	33.28	23.80	36.83	25.58	49.14	36.32	42.98	42.52	94.55	83.13	130.94	122.88	117.30	103.36	157.81	107.36	164.35	127.80	132.64	146.33	124.73	148.03	165.69	153.38	158.41
Luxembourg	2.70	1.20	0.00	1.25	5.83	2.00	3.33	12.75	22.40	27.70	46.44	62.98	100.90	118.50	153.73	173.66	182.94	237.34	259.03	236.40	241.94	231.40	274.59	296.70	254.61
Malta	1.25	5.83	3.00	0.00	4.00	0.50	4.50	5.33	3.50	8.58	12.50	19.17	30.93	29.32	44.92	38.39	43.30	45.85	39.43	46.84	63.69	51.38	64.68	90.11	82.11
Netherlands	702.39	710.79	810.16	773.00	909.60	946.73	1,006.90	1,163.48	1,444.10	1,792.58	1,906.26	2,149.76	2,338.72	2,443.32	2,454.20	2,479.69	2,329.95	2,344.92	2,280.85	2,166.22	1,987.43	1,983.69	2,143.19	2,313.79	2,192.64
Poland	239.11	225.76	431.67	287.43	389.77	506.02	621.03	493.37	1,096.29	924.70	1,468.24	1,536.85	1,914.79	1,538.68	2,091.45	1,956.24	2,466.99	2,087.58	2,242.62	2,447.97	2,536.92	2,172.66	2,286.16	2,174.53	2,299.90
Portugal	167.42	179.32	243.59	253.12	311.97	330.64	364.57	534.41	568.25	654.94	876.10	1,117.88	1,171.60	1,323.56	1,436.36	1,794.00	1,765.96	1,726.09	1,864.07	1,922.67	1,606.22	1,620.45	1,805.82	2,032.33	1,859.40
Romania	89.57	61.56	92.36	75.54	99.86	102.38	113.02	126.87	170.94	306.13	319.71	636.84	807.26	1,135.53	1,556.24	1,240.19	1,059.77	1,024.55	866.45	1,031.03	978.20	860.25	1,021.67	994.93	1,267.58
Slovakia	55.21	66.35	71.52	79.67	75.57	106.93	92.31	109.65	128.57	217.47	225.56	267.51	310.30	329.40	383.76	424.01	474.78	474.42	426.30	526.19	525.73	396.77	461.28	499.53	493.11
Slovenia	101.84	124.61	131.58	149.48	189.67	166.80	195.12	316.29	229.75	256.12	257.73	307.47	311.36	349.96	326.99	349.92	341.49	328.47	333.98	363.20	272.94	332.47	333.70	368.55	352.14
Spain	645.60	781.41	870.55	1,029.85	1,234.47	1,442.00	1,783.38	2,150.01	2,834.40	3,201.68	3,784.68	4,519.85	4,587.76	5,449.24	5,589.90	5,865.42	5,689.04	5,408.81	5,025.33	4,886.11	4,709.30	4,767.15	4,615.32	4,890.40	4,416.42

Table SPBS-7

## S&amp;E articles in computer and information sciences, fractional count, by region, country, or economy: 1996–2020

(Number)

Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Sweden	475.05	474.88	566.04	646.43	727.41	655.07	731.64	864.19	985.49	1,164.74	1,258.14	1,330.80	1,264.05	1,357.25	1,553.85	1,645.22	1,737.50	1,761.92	1,766.45	1,756.75	1,812.93	1,694.90	1,751.39	1,776.54	1,687.26	
Other Europe	1,969.69	1,771.57	2,835.55	2,334.94	2,459.99	2,839.41	3,004.94	3,495.85	4,081.72	4,872.95	5,373.24	5,992.18	6,059.55	6,634.06	7,815.85	7,858.28	8,501.79	8,790.67	8,779.27	10,521.74	12,617.77	14,823.49	14,929.34	16,819.95	17,704.04	
Other Europe, 2020 <sup>b</sup>	4,524.66	4,302.85	5,589.39	5,199.49	5,654.52	6,118.22	6,566.37	7,545.48	8,833.39	10,969.75	12,119.32	13,240.57	13,742.26	14,478.47	15,938.84	15,511.30	15,772.39	16,615.46	16,240.08	18,339.28	20,451.25	22,931.33	22,839.84	25,088.97	25,450.56	
Albania	3.00	0.00	0.00	0.33	0.11	0.00	0.00	0.00	0.45	0.00	1.00	0.33	1.00	3.45	10.35	20.32	19.23	18.13	16.60	28.12	29.43	16.98	36.02	15.89	13.70	
Andorra	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	1.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.75	0.25	0.00	0.57	0.00	1.00	
Belarus	36.58	78.07	96.21	78.81	71.56	80.19	63.16	58.27	97.40	88.58	73.98	98.97	67.67	104.59	113.45	97.04	93.23	117.14	89.52	62.35	59.20	72.67	59.21	95.69	100.84	
Bosnia and Herzegovina	1.04	0.17	0.37	1.50	1.83	3.17	5.67	8.92	10.07	28.63	21.36	40.90	60.85	46.85	72.67	95.02	122.65	72.38	86.14	87.93	101.48	73.63	103.95	99.46	106.93	
Holy See (Vatican City)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.00	
Iceland	4.00	8.08	4.53	6.20	7.90	3.50	4.73	9.91	10.85	19.02	26.28	23.74	38.44	49.24	66.04	80.83	83.68	66.63	57.43	71.66	97.98	75.73	95.22	64.06	53.47	
Kosovo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.50	2.90	6.62	13.52	13.18	11.53	7.40	12.53	20.39	22.48	22.52	17.89	13.77	
Liechtenstein	0.00	0.03	0.00	0.00	0.58	0.00	0.50	0.33	1.61	1.00	0.83	2.08	10.75	5.40	7.80	7.48	4.75	5.39	10.75	5.95	9.88	6.42	10.50	7.43	12.04	
Moldova	7.50	5.83	1.83	1.37	6.00	5.17	2.83	3.50	7.75	9.67	8.74	8.98	7.67	7.45	9.91	8.37	12.44	8.33	14.18	12.18	7.78	11.71	6.98	9.38	9.62	
Monaco	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.17	0.00	0.00	0.00	0.50	0.00	0.17	0.00	0.33	0.00	0.00	1.00	0.42	0.69	
Montenegro <sup>c</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.38	16.63	15.00	32.87	40.73	51.57	55.17	51.24	63.92	46.58	67.68	57.06	43.17	58.89	
North Macedonia	4.00	14.40	21.82	8.50	19.92	14.67	18.75	16.50	25.19	37.01	27.83	49.96	55.01	77.50	86.00	127.25	127.00	82.08	104.98	103.86	74.84	131.70	106.80	98.14	121.98	
Norway	140.54	134.81	116.12	119.55	148.37	180.45	176.39	256.84	342.05	458.73	633.27	654.00	721.62	804.45	870.54	772.35	833.82	732.31	723.13	768.60	829.38	823.56	968.59	1,014.91	1,030.36	
Russia	779.61	537.12	994.53	854.96	894.79	957.40	1,050.39	958.65	1,052.18	1,261.42	1,105.41	1,197.33	1,266.81	1,306.22	1,680.95	1,558.27	1,744.95	1,991.77	2,566.76	3,633.84	5,014.80	6,428.87	6,068.32	7,024.19	8,042.27	
San Marino	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	1.33	0.00	0.17	
Serbia <sup>c</sup>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	250.24	226.83	357.04	429.20	674.64	734.64	605.93	410.86	497.33	492.59	513.91	532.62	482.26	383.32	
Serbia and Montenegro <sup>d</sup>	102.71	84.93	146.24	177.52	120.90	171.92	105.80	160.21	98.09	251.58	165.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Switzerland	420.43	436.17	506.56	466.59	556.53	583.14	641.98	834.48	962.99	1,155.52	1,280.13	1,361.23	1,397.51	1,536.16	1,573.83	1,596.51	1,596.41	1,663.21	1,640.40	1,607.87	1,598.46	1,504.03	1,604.56	1,648.24	1,573.67	
Turkey	178.55	145.88	227.09	155.56	237.68	209.72	253.10	411.05	704.88	883.34	1,164.48	1,357.12	1,326.03	1,640.54	1,718.97	1,904.97	2,008.29	2,141.38	2,242.94	2,375.58	2,647.98	2,954.67	3,018.47	3,353.91	3,383.30	
Ukraine	291.74	326.07	719.86	464.05	393.81	629.60	681.64	777.20	767.54	677.95	862.57	929.08	859.74	677.27	1,136.65	860.48	1,055.60	1,219.11	756.72	1,188.91	1,586.74	2,119.44	2,235.63	2,843.71	2,798.02	
Middle East	823.51	747.88	905.16	817.13	992.56	973.72	1,226.63	1,427.35	1,931.23	2,267.61	3,130.04	3,587.00	4,985.80	5,570.70	6,432.54	6,960.03	6,344.40	6,118.68	6,252.34	6,811.87	7,172.82	7,708.07	8,147.20	10,718.66	11,501.21	
Armenia	39.29	7.75	10.89	7.55	16.57	8.50	9.31	10.77	13.98	15.42	11.08	10.33	8.00	12.10	23.88	20.32	14.18	56.11	23.04	30.25	39.70	27.32	21.70	64.84	25.84	
Azerbaijan	5.13	3.67	7.00	8.50	4.67	4.83	6.20	12.00	8.70	24.88	14.08	18.33	23.17	80.42	33.23	71.47	171.75	41.38	38.89	29.71	57.56	69.83	37.00	65.54	56.41	
Bahrain	3.00	2.81	1.50	1.50	2.50	3.33	5.33	6.67	5.96	7.17	14.25	9.75	19.70	20.62	37.62	30.65	18.18	19.45	12.98	16.25	12.43	20.42	37.38	48.47	110.59	
Gaza Strip <sup>e</sup>	0.58	1.00	1.00	1.75	0.00	0.00	3.33	0.00	1.00	1.00	2.00	4.75	4.33	3.83	8.50	8.42	17.50	10.42	4.45	9.52	8.75	8.62	6.00	26.47	42.28	
Georgia	7.33	4.96	14.95	9.67	8.23	11.13	20.27	20.52	13.68	26.55	23.64	18.70	14.62	26.90	33.48	44.50	48.95	26.93	27.17	28.43	29.19	34.73	31.06	36.87	32.27	
Iran	34.04	65.20	52.69	52.61	98.12	113.70	210.16	312.54	536.34	790.27	1,073.20	1,592.64	2,552.28	3,032.76	3,465.18	3,640.38	2,678.74	2,430.80	2,594.18	2,849.02	3,017.18	3,158.15	3,135.24	3,605.68	4,240.48	
Iraq	0.28	0.56	5.00	1.00	4.00	4.08	0.50	17.00	2.33	3.00	37.81	21.25	38.70	35.15	95.20	106.62	152.99	83.24	112.32	111.27	164.32	262.77	541.93	1,169.49	1,319.99	
Israel	605.48	515.62	654.13	580.64	680.27	646.39	788.90	767.59	965.23	976.02	1,307.84	1,170.12	1,447.28	1,252.82	1,380.30	1,298.10	1,463.08	1,310.21	1,379.37	1,273.96	1,288.69	1,421.41	1,319.84	1,538.69	1,294.62	
Jordan	8.38	11.80	25.95	18.56	17.39	23.13	16.92	49.33	64.28	79.24	94.88	115.94	167.57	175.70	270.52	246.80	210.81	227.22	203.64	277.33	278.08	408.42	463.27	686.85	551.24	
Kuwait	35.53	24.18	27.58	33.40	28.20	29.15	35.58	27.42	29.90	47.37	57.58	73.58	68.62	100.90	96.08	128.00	83.71	80.08	80.63	86.50	97.41	92.87	142.06	114.53	122.99	
Lebanon	5.51	9.38	10.42	12.85	24.04	15.14	24.27	36.77	55.40	67.43	82.30	94.21	95.88	146.82	126.95	157.70	199.47	191.38	202.12	215.23	225.52	201.49	266.74	311.22	235.48	

Table SPBS-7

## S&amp;E articles in computer and information sciences, fractional count, by region, country, or economy: 1996–2020

(Number)

Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Oman	3.42	7.25	8.17	2.73	4.92	9.50	15.67	16.13	29.21	17.04	24.40	34.72	37.32	53.83	44.83	69.99	71.48	66.90	51.17	74.90	93.52	71.71	120.85	129.17	128.11
Qatar	0.00	0.00	1.00	0.17	0.00	2.08	2.70	3.83	10.78	7.08	22.52	26.13	50.73	43.75	65.00	71.17	139.97	231.80	238.43	249.66	280.40	258.14	264.69	302.04	375.47
Saudi Arabia	69.47	82.25	71.28	69.97	82.82	74.39	56.21	82.48	91.78	81.07	150.26	188.03	231.47	345.93	469.43	663.58	729.15	965.91	970.95	1,156.97	1,101.00	1,149.82	1,203.39	1,592.23	2,038.84
Syria	0.00	1.23	0.50	1.00	0.75	1.00	1.62	0.25	13.58	2.00	18.60	7.83	38.64	14.98	8.96	9.16	13.33	9.15	1.67	10.21	6.73	12.91	14.03	31.14	38.96
United Arab Emirates	4.50	6.58	8.90	13.25	19.10	27.36	28.67	60.79	87.37	118.28	187.15	194.47	179.93	210.25	252.86	359.86	310.54	332.13	290.04	367.53	436.94	469.72	483.92	866.70	813.82
West Bank <sup>e</sup>	1.25	3.00	3.00	0.00	1.00	0.00	1.00	2.00	1.00	3.33	4.20	5.00	5.92	7.25	10.23	19.42	11.45	14.63	10.62	16.38	23.02	25.35	41.71	68.38	46.55
Yemen	0.33	0.64	1.20	2.00	0.00	0.00	0.00	1.25	0.70	0.45	4.25	1.20	1.65	6.68	10.31	13.90	9.12	20.95	10.69	8.75	12.38	14.41	16.38	60.34	27.27
Africa	418.54	252.52	428.93	465.84	415.96	406.63	633.11	507.75	825.02	904.67	1,279.03	1,552.56	1,794.27	2,386.06	2,543.60	2,999.13	3,489.46	4,050.79	4,006.59	4,785.85	6,145.80	6,615.12	6,736.97	8,169.54	7,536.60
Algeria	13.79	14.39	21.89	20.86	22.72	56.80	53.02	64.74	93.66	145.16	242.00	275.00	277.18	364.75	371.63	565.01	613.38	670.72	685.09	801.83	925.26	1,105.98	975.76	1,286.66	1,047.95
Angola	0.00	0.00	0.06	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.58	0.92	1.17	1.17	1.00	1.08	1.53	3.83	1.96
Benin	0.40	0.00	0.00	0.00	0.17	0.00	0.10	0.00	0.00	0.17	0.00	0.20	0.75	0.45	4.33	0.44	2.88	4.33	4.30	3.20	4.60	7.49	5.28	17.48	9.85
Botswana	4.00	2.00	1.00	2.00	0.00	1.00	1.33	1.67	5.94	1.67	18.75	6.17	7.12	5.58	3.42	11.48	6.08	5.71	7.17	14.00	15.59	20.25	18.75	23.82	15.70
Burkina Faso	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	1.37	1.50	1.33	0.00	0.75	0.56	1.25	3.13	0.33	3.28	8.31	2.77	8.48	4.91	8.78
Burundi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	1.74	2.82	0.79
Cabo Verde	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	2.00	0.00	1.50	0.00	0.87	0.20	0.50	1.75	0.20	0.00	1.00	0.75	0.99	2.00
Cameroon	0.25	1.00	0.25	1.33	1.38	1.25	1.83	3.50	3.00	10.16	3.11	4.62	13.95	13.63	4.83	9.60	15.05	16.81	15.53	14.66	27.37	17.49	37.12	33.98	50.14
Central African Republic	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25
Chad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.50	0.14	0.00	0.67	0.39	0.17	0.25	0.11	0.00	1.95	0.79	0.08
Comoros	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.14	0.00	0.00	0.00	0.00	0.00	0.17
Congo, Democratic Republic of the	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.10	0.33	0.39	1.37	2.43
Congo, Republic of the	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.33	1.00	0.33	0.00	1.00	0.25	0.00	0.00	0.50	0.00	0.00	0.33	0.53	1.25	0.17	0.70	1.87
Côte d'Ivoire	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.71	0.00	0.00	2.00	0.50	2.00	2.92	1.25	0.75	0.00	1.33	1.21	1.60	5.54	3.33	4.85
Djibouti	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.11	0.33	0.25	0.00	0.00	0.00	1.08	0.79	0.00
Egypt	132.96	92.60	141.86	93.97	183.34	162.53	201.64	187.09	229.28	275.37	330.05	435.73	496.65	690.44	728.02	689.94	874.21	886.16	742.00	875.40	1,170.23	970.89	1,144.17	1,652.00	1,600.07
Equatorial Guinea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.17	0.00	0.00	1.00	0.00	0.00	0.00
Eritrea	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.25	1.79	0.00	0.33	0.00	0.00	0.00	0.38	0.00	0.00	0.00
Eswatini	0.00	0.00	1.00	1.00	0.00	0.00	1.83	0.33	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.50	0.50	1.13	1.50	2.73	1.12	1.42	4.58
Ethiopia	1.00	0.00	1.50	0.00	1.00	0.00	0.00	0.00	0.25	0.50	3.08	0.75	2.25	11.20	20.28	10.67	32.52	15.69	22.68	54.57	28.21	46.48	56.43	122.43	117.15
Gabon	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.25	0.00	0.00	0.00	0.33	0.50	0.00	0.67	0.33	0.00	0.25	0.50	0.25	0.00	0.00	0.33	0.00
Gambia, The	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	1.00	0.50	0.25	0.25	0.00	0.20	0.25	0.20
Ghana	2.00	1.04	1.03	0.00	0.33	0.50	0.00	0.00	0.00	1.33	0.67	2.08	4.17	7.94	8.12	8.17	28.30	14.88	15.57	19.80	27.08	39.91	66.26	77.43	71.86
Guinea	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.42	0.25	0.00	0.17	0.00	0.00	0.00	0.00	0.20	0.40	0.00	0.00	0.33	0.00	0.00	0.20
Guinea-Bissau	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kenya	8.58	0.20	0.50	6.25	1.83	0.00	0.55	3.50	0.00	2.67	1.50	8.50	1.00	21.98	10.17	15.36	6.75	28.09	23.61	31.36	41.55	55.33	38.67	91.37	94.52
Lesotho	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	2.17	0.00	1.00	0.67	2.04	0.50	0.58	0.17

Table SPBS-7

## S&amp;E articles in computer and information sciences, fractional count, by region, country, or economy: 1996–2020

(Number)

Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Liberia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.25	0.00	0.00	0.50	0.00	1.07	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	
Libya	3.06	0.34	2.80	3.50	7.33	2.50	0.00	3.00	3.75	3.33	8.25	13.32	16.56	35.12	65.26	15.88	27.10	41.61	44.11	29.22	22.71	28.85	21.48	32.76	84.65	
Madagascar	2.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	1.00	1.33	2.17	0.25	1.32	1.91	1.25	6.23	6.17	5.17	2.00	3.42	7.03	3.40	7.59	
Malawi	0.00	0.00	0.00	0.00	0.50	0.50	0.00	0.00	1.50	1.33	0.50	2.50	1.00	1.00	2.50	3.33	5.54	3.65	9.80	12.46	4.19	5.10	2.40	5.95	6.73	
Mali	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.14	0.00	0.79	1.22	1.43	0.78	0.50	1.25	0.88	1.79	4.10	
Mauritania	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.24	0.37	0.33	0.00	0.58	1.53	0.25	
Mauritius	0.00	0.00	1.00	16.50	10.20	3.50	15.60	3.50	10.25	7.67	14.33	16.20	16.14	16.75	28.67	17.62	15.75	34.42	28.52	24.18	30.75	30.68	24.23	69.24	60.48	
Morocco	5.48	10.08	19.54	28.40	27.08	23.85	15.29	22.75	25.59	40.09	48.08	53.91	101.07	190.52	153.98	284.51	434.35	368.72	512.13	741.17	1,175.58	1,266.66	1,323.35	1,599.36	1,476.02	
Mozambique	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.25	0.38	0.78	0.00	1.25	0.92	0.00	3.01	0.50	1.83	0.57	0.73	1.33	0.33	3.32	2.88	3.67	
Namibia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	3.93	1.33	1.50	4.85	7.19	5.45	9.48	22.83	22.37	17.33	31.00	44.73	22.56	33.55	
Niger	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.83	0.25	0.83	0.00	0.67	0.00	0.50	0.61	1.24	0.00	0.37	2.54	3.48	
Nigeria	5.05	1.94	3.47	7.33	3.00	4.00	6.47	10.92	10.82	17.06	12.35	26.72	29.78	60.83	73.67	115.03	100.88	158.24	167.15	183.63	230.21	247.88	365.81	463.47	431.70	
Rwanda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.17	2.00	1.00	1.83	0.67	4.17	1.50	3.20	2.12	4.17	1.56	2.16	3.23	6.13	15.66	10.05	14.03
São Tomé and Príncipe	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	
Senegal	0.00	0.00	1.67	0.00	1.83	0.00	0.13	0.37	0.17	1.88	2.00	4.28	3.57	7.91	11.65	13.91	21.26	11.31	20.76	25.96	30.52	44.39	85.29	70.71	77.51	
Seychelles	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	0.00	0.10	
Sierra Leone	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.06	0.00	1.00	0.00	0.00	0.00	0.00	0.17	1.50	1.00	1.00	0.00	1.17	0.25	
Somalia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.70	0.25	0.50	1.34	0.62	
South Africa	217.28	103.29	186.67	233.95	93.92	99.22	212.93	152.91	293.33	222.72	344.64	391.40	401.26	461.85	455.27	654.47	545.74	761.95	627.86	884.24	915.33	1,279.71	1,018.65	1,361.69	1,063.16	
South Sudan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.25	0.00	0.00	0.50	0.00	
Sudan	0.77	0.50	1.64	0.00	3.25	1.50	0.00	0.00	2.00	1.27	3.50	3.88	4.42	10.26	16.70	20.00	22.85	107.11	20.73	38.68	106.12	76.22	128.70	87.31	24.18	
Tanzania	4.00	0.07	3.11	2.50	0.00	0.50	0.00	0.33	3.00	2.08	1.33	6.15	5.36	10.48	5.70	11.31	10.14	10.26	18.17	9.78	12.46	19.07	19.42	31.42	33.22	
Togo	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.50	0.00	0.14	1.82	1.67	2.75	0.00	
Tunisia	9.67	22.36	36.93	43.70	46.68	47.97	121.89	47.64	136.63	163.15	230.40	277.97	392.15	460.34	544.00	504.05	684.42	846.48	981.87	944.08	1,315.24	1,257.59	1,262.26	1,027.96	1,130.65	
Uganda	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.50	3.60	9.83	6.67	6.02	12.93	24.73	21.11	23.52	12.47	19.31	10.01	22.04	32.93	29.96	31.78	
Zambia	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.33	0.00	0.50	1.00	0.00	0.50	4.67	0.81	1.33	4.50	2.40	2.69	5.35	5.17	6.20	3.77	2.32	
Zimbabwe	6.00	1.38	1.00	3.50	10.33	0.50	0.00	1.25	0.00	0.83	0.50	1.11	0.00	0.33	0.83	2.00	1.70	4.33	5.08	10.00	5.45	7.88	5.63	8.00	11.00	
Asia	8,935.54	10,324.27	11,099.00	12,172.60	13,624.84	16,888.02	18,405.26	23,069.28	33,850.45	45,358.03	52,143.46	57,926.22	75,655.24	94,174.51	108,232.85	98,768.98	96,378.75	82,740.99	82,760.51	86,687.50	102,358.94	109,128.60	126,256.55	148,870.02	141,012.92	
Afghanistan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.50	0.00	1.00	1.17	0.00	0.00	0.83	0.00	5.35	10.15	3.87	21.05	11.39	
Bangladesh	3.50	17.01	7.97	9.33	7.75	4.08	8.33	100.77	37.55	53.31	112.26	178.19	206.52	265.67	427.05	272.81	556.53	312.59	621.09	563.26	755.67	1,030.39	1,010.03	2,263.63	1,499.36	
Bhutan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	1.00	1.00	0.75	1.00	1.01	0.33	1.00	1.17	2.50	2.00	4.50	1.44	3.03	4.73	2.42	
Brunei	2.22	0.83	2.50	1.00	4.00	0.67	1.42	1.33	0.17	1.00	0.25	1.00	0.83	2.25	2.96	3.37	8.34	12.93	17.72	17.49	31.61	24.30	16.04	32.47	35.28	
Burma	0.00	0.00	0.50	1.00	0.00	1.00	0.00	0.25	0.50	32.17	4.00	5.25	7.83	51.50	27.58	59.00	3.42	3.17	1.58	10.63	9.38	37.30	84.33	111.23	139.65	
Cambodia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	1.65	0.25	0.40	0.33	0.00	1.03	0.33	2.50	3.78	1.42	2.54	5.30	3.92	7.21	
China	2,369.42	2,425.85	3,230.78	2,769.55	3,911.13	6,920.90	7,145.39	8,740.17	15,575.98	23,255.59	27,219.81	30,451.24	44,798.07	58,836.41	70,005.10	56,773.15	54,799.77	42,554.28	41,335.56	40,521.49	49,116.30	53,539.81	66,254.74	81,810.96	80,219.85	
India	605.86	744.56	627.47	906.27	742.91	706.46	1,017.96	1,477.35	1,825.43	2,252.21	2,861.76	3,636.72	5,157.60	6,248.27	7,947.19	10,752.77	10,485.96	11,406.00	12,908.28	17,965.54	21,769.82	21,441.40	26,533.60	24,902.88	26,201.59	





## Table SPBS-7

## S&amp;E articles in computer and information sciences, fractional count, by region, country, or economy: 1996–2020

(Number)

Region, country, or economy	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Tonga	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	
Tuvalu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vanuatu	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.20	
Unassigned	494.62	234.50	215.17	241.87	222.13	195.51	241.96	328.46	309.02	489.17	686.20	984.39	1,028.71	406.43	304.51	295.54	202.59	159.90	113.95	101.07	134.12	135.87	192.90	840.96	1,131.87	

EU = European Union; UK = United Kingdom.

<sup>a</sup> The UK was a part of the EU for data purposes from 1973 to 2019.<sup>b</sup> Beginning in 2020, the UK was no longer a member of the EU.<sup>c</sup> Beginning in 2006, Serbia and Montenegro represented individual countries.<sup>d</sup> Serbia and Montenegro represented a single country for data purposes from 1992 to 2006.<sup>e</sup> West Bank and Gaza Strip are separate entities in this list but are grouped in the World Bank Lending Groups classification list. Here, the economic status of the group is applied to both individual regions.**Note(s):**

Article counts refer to publications from a selection of conference proceedings and peer-reviewed journals in S&E fields from Scopus. Articles are classified by their year of publication and are assigned to a region, country, or economy on the basis of the institutional address(es) of the author(s) listed in the article. Articles are credited on a fractional count basis (i.e., for articles produced by authors from different countries, each country receives fractional credit on the basis of the proportion of its participating authors). Data are not directly comparable to *Science and Engineering Indicators 2020*; see the Technical Appendix for information on data filters. The sum of the fractional count for regions, countries, and economies may not add to the world total because of rounding. Some publications have incomplete address information for coauthored publications in the Scopus database. The Unassigned category count is the sum of fractional counts for publications that cannot be assigned to a region, country, or economy.

**Source(s):**

National Center for Science and Engineering Statistics; Science-Metrix; Elsevier, Scopus abstract and citation database, accessed May 2021.

*Science and Engineering Indicators*