ממוצע השוואות בין האלגוריתמים השונים:

גרף ממוצעים

- shortest_path
- connected_components
- connected_componenet

3515.190336

693.6603976

369.9753294

108.6863359

0.119624133   0.682277739

9.87E-06   0.050307117

Java   Python (GraphAlgo)   Python (NetworkX)

4000
3500
3000
2500
2000
1500
1000
500
0
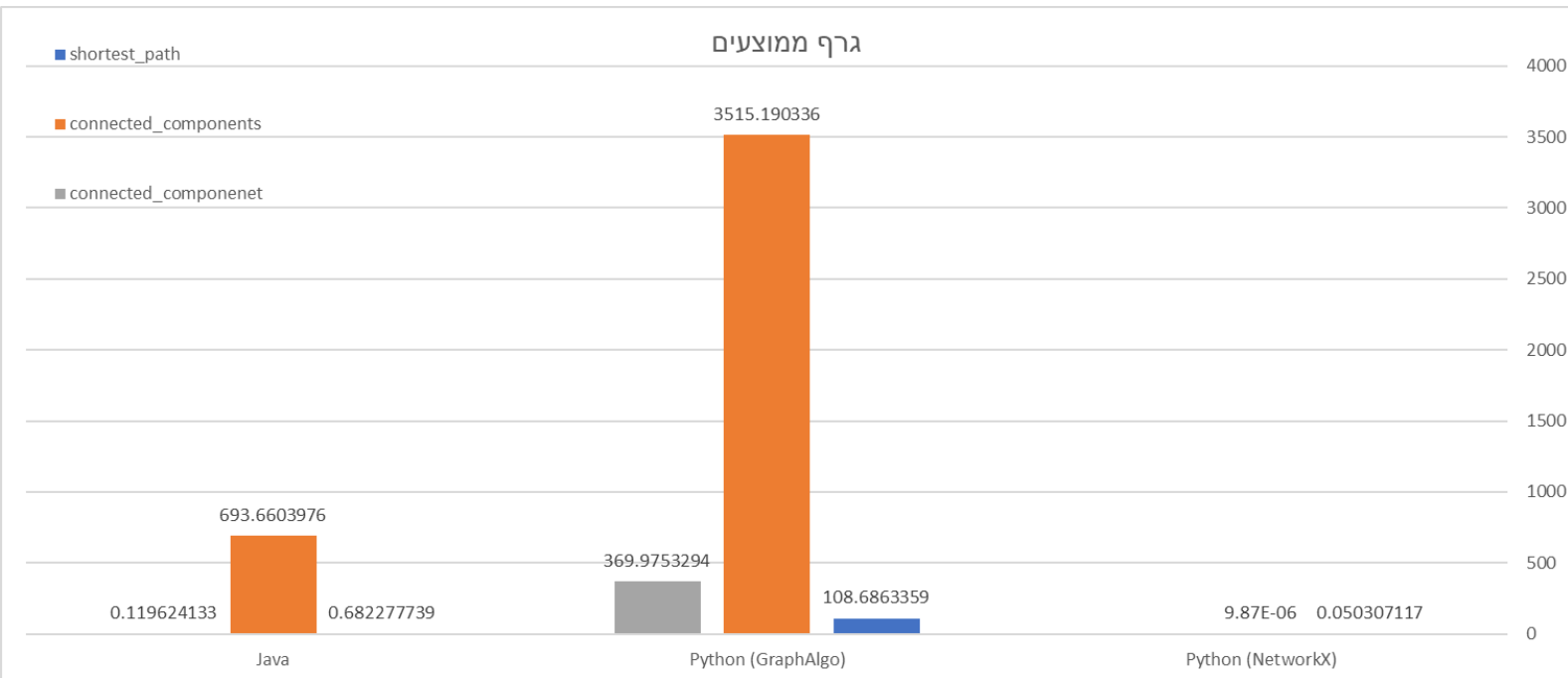
נתונים בטבלה עבור גרף זה:

Average:	Python (NetworkX)	Python (GraphAlgo)	Java
shortest_path	0.050307117	108.6863359	0.682278
connected_components	9.87E-06	3515.190336	693.6604
connected_componenet		369.9753294	0.119624

Graph	Values	Algorithm	Python (NetworkX)		Python (GraphAlgo)		Java	
			nanosec	sec	nanosec	sec	nanosec	sec
Graphs_no_pos/G_10_80_0.json	src=0, dest=7	shortest_path	36900	0.0000369	86800	0.0000868	381600	0.0003816
		connected_components	5.30E+03	0.0000053	1185000	0.001185	2.11E+07	0.021121
	id=7	connected_componenet		0	1187400	0.0011874	3029400	0.0030294
Graphs_no_pos/G_100_800_0.json	src=0, dest=70	shortest_path	388200	0.0003882	6512900	0.0065129	1585100	0.0015851
		connected_components	6.50E+03	0.0000065	22573300	0.0225733	8.15E+07	0.0815062
	id=70	connected_componenet		0	22680100	0.0226801	3995700	0.0039957
Graphs_no_pos/G_1000_8000_0.json	src=0, dest=700	shortest_path	1182500	0.0011825	135417100	0.1354171	8505600	0.0085056
		connected_components	6.90E+03	0.0000069	1415642700	1.4156427	1.66E+09	1.6628083
	id=700	connected_componenet		0	1493439200	1.4934392	16379100	0.0163791
Graphs_no_pos/G_10000_80000_0.json	src=0, dest=7000	shortest_path	49006500	0.0490065	64932470400	64.9324704	182814100	0.1828141
		connected_components	1.37E+04	0.0000137	9.48491E+11	948.4905924	2.32E+11	231.8181958
	id=7000	connected_componenet		0	1.56228E+11	156.2277789	85429300	0.0854293
Graphs_no_pos/G_20000_160000_0.json	src=0, dest=14000	shortest_path	96349400	0.0963494	2.11626E+11	211.6256227	690243600	0.6902436
		connected_components	1.28E+04	0.0000128	5.01179E+12	5011.785514	1.28E+12	1283.116994
	id=14000	connected_componenet		0	6.25673E+11	625.6727604	306631000	0.306631
Graphs_no_pos/G_30000_240000_0.json	src=0, dest=21000	shortest_path	291044000	0.291044	6.21494E+11	621.4942708	1609034700	1.6090347
		connected_components	1.33E+04	0.0000133	2.00422E+13	20042.24507	2.71E+12	2714.16099
	id=21000	connected_componenet		0	1.41015E+12	1410.154955	259712700	0.2597127
Graphs_on_circle/G_10_80_1.json	src=0, dest=7	shortest_path	55900	0.0000559	114900	0.0001149	16600	0.0000166
		connected_components	6.50E+03	0.0000065	1198500	0.0011985	1.33E+06	0.0013309
	id=7	connected_componenet		0	1364200	0.0013642	346400	0.0003464
Graphs_on_circle/G_100_800_1.json	src=0, dest=70	shortest_path	69400	0.0000694	614400	0.0006144	33300	0.0000333
		connected_components	6.80E+03	0.0000068	23300100	0.0233001	1.26E+07	0.0126334
	id=70	connected_componenet		0	23748400	0.0237484	1001200	0.0010012
Graphs_on_circle/G_1000_8000_1.json	src=0, dest=700	shortest_path	594100	0.0005941	43798500	0.0437985	373500	0.0003735
		connected_components	7.40E+03	0.0000074	2120695400	2.1206954	1.63E+09	1.6332935
	id=700	connected_componenet		0	1483336400	1.4833364	7498400	0.0074984
Graphs_on_circle/G_10000_80000_1.json	src=0, dest=7000	shortest_path	43787000	0.043787	57427345400	57.4273454	323120900	0.3231209
		connected_components	1.13E+04	0.0000113	4.21822E+11	421.8215178	2.13E+11	213.2426481
	id=7000	connected_componenet		0	1.57393E+11	157.393129	84166800	0.0841668
Graphs_on_circle/G_20000_160000_1.json	src=0, dest=14000	shortest_path	15137100	0.0151371	30690603900	30.6906039	565088600	0.5650886
		connected_components	1.00E+04	0.00001	3.66328E+12	3663.277515	1.00E+12	1002.491623
	id=14000	connected_componenet		0	6.3225E+11	632.2497497	178979000	0.178979
Graphs_on_circle/G_30000_240000_1.json	src=0, dest=21000	shortest_path	143102600	0.1431026	4.32934E+11	432.9337432	5289571000	5.289571
		connected_components	1.95E+04	0.0000195	1.47538E+13	14753.83444	3.05E+12	3050.885727
	id=21000	connected_componenet		0	1.40852E+12	1408.520674	317257400	0.3172574
Graphs_random_pos/G_10_80_2.json	src=0, dest=7	shortest_path	55600	0.0000556	148400	0.0001484	421700	0.0004217
		connected_components	6.80E+03	0.0000068	1077100	0.0010771	2.13E+07	0.0212952
	id=7	connected_componenet		0	1066500	0.0010665	3148100	0.0031481
Graphs_random_pos/G_100_800_2.json	src=0, dest=70	shortest_path	351600	0.0003516	5745800	0.0057458	1430600	0.0014306
		connected_components	7.10E+03	0.0000071	22830100	0.0228301	7.35E+07	0.0735169
	id=70	connected_componenet		0	23699100	0.0236991	3547700	0.0035477
Graphs_random_pos/G_1000_8000_2.json	src=0, dest=700	shortest_path	4571100	0.0045711	682317400	0.6823174	13957700	0.0139577
		connected_components	7.70E+03	0.0000077	1428011000	1.428011	1.64E+09	1.6385185
	id=700	connected_componenet		0	1492651000	1.492651	18322600	0.0183226
Graphs_random_pos/G_10000_80000_2.json	src=0, dest=7000	shortest_path	80894400	0.0808944	63505682700	63.5056827	362232400	0.3622324
		connected_components	1.09E+04	0.0000109	5.04675E+11	504.6754256	2.03E+11	202.8568095
	id=7000	connected_componenet		0	1.56624E+11	156.6241554	85927900	0.0859279
Graphs_random_pos/G_20000_160000_2.json	src=0, dest=14000	shortest_path	54091400	0.0540914	1.12928E+11	112.9280465	1745428500	1.7454285
		connected_components	1.13E+04	0.0000113	5.4333E+12	5433.296193	1.06E+12	1057.532921
	id=14000	connected_componenet		0	6.38352E+11	638.3517845	257436300	0.2574363
Graphs_random_pos/G_30000_240000_2.json	src=0, dest=21000	shortest_path	124810400	0.1248104	3.59942E+11	359.9415051	1486759800	1.4867598
		connected_components	1.38E+04	0.0000138	1.2489E+13	12488.96327	2.72E+12	2724.635226
	id=21000	connected_componenet		0	1.46982E+12	1469.817769	520425400	0.5204254