

Hierarchical Clustering Dendrogram - gap: 0.00, Tp: 1.00, single link



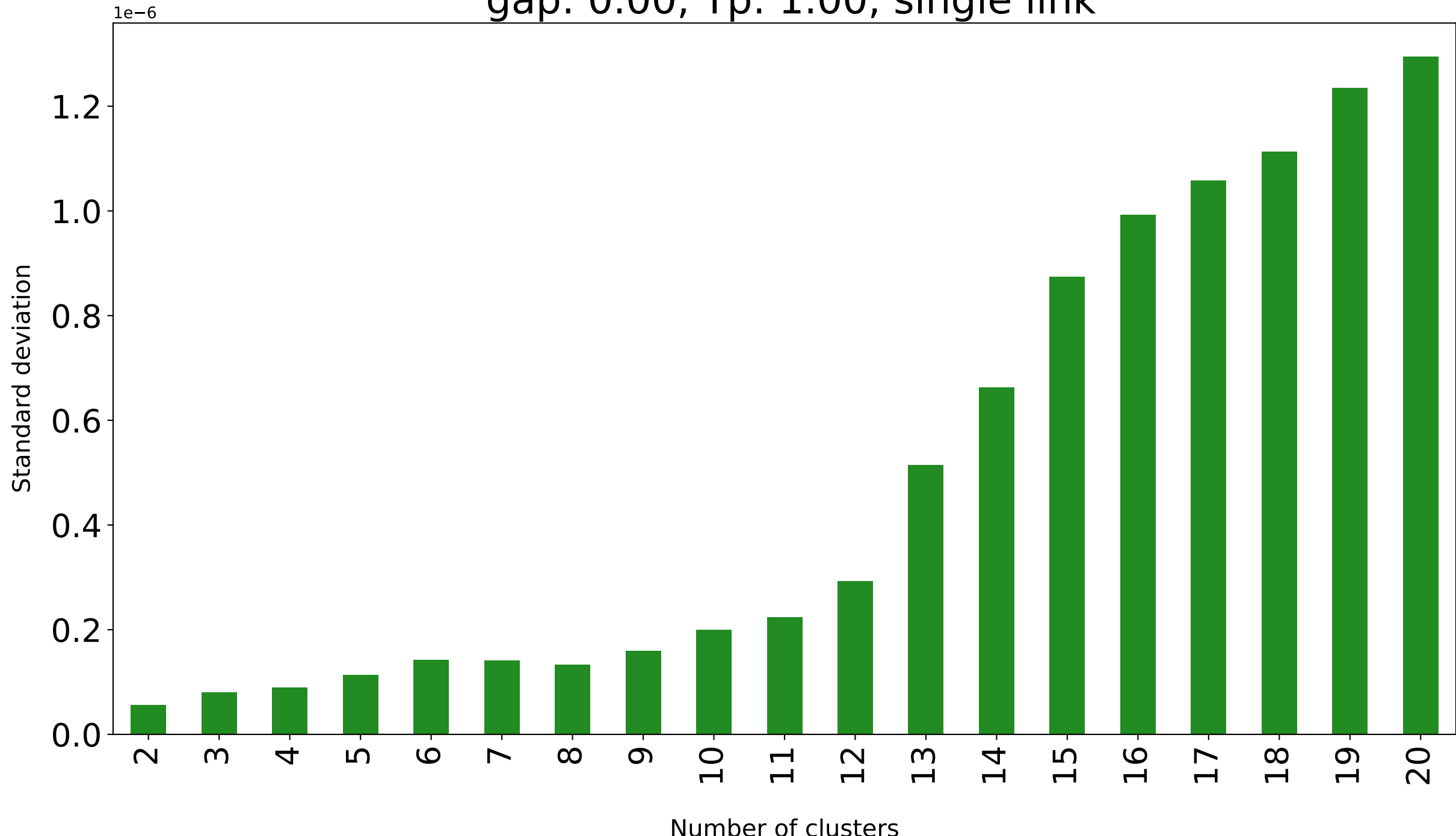
patient index

Cophenetic Correlation Coefficient: 0.446751884867634

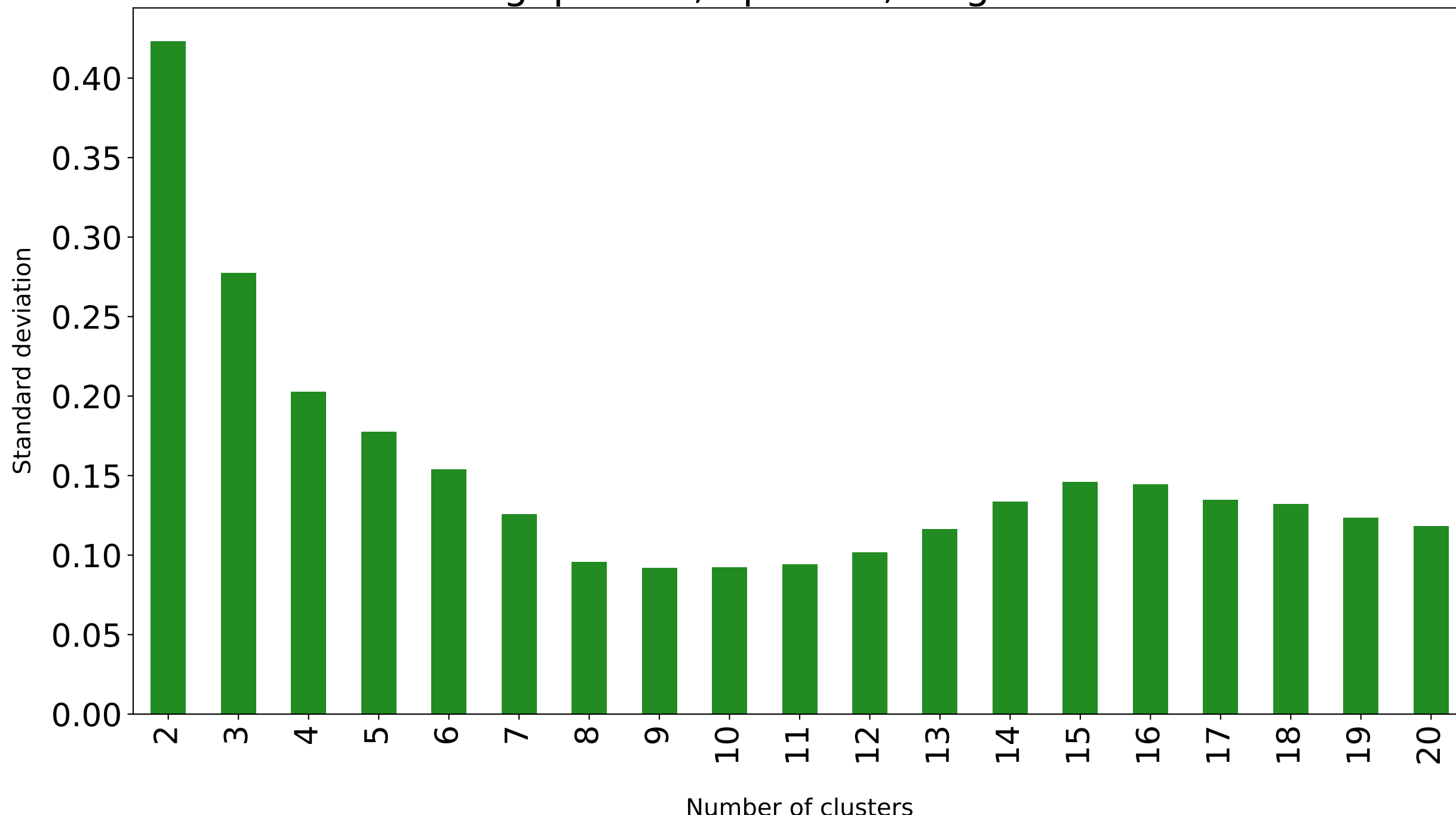
Average values of 20 clustering indices  
gap: 0.00, Tp: 1.00, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2.0	1.0	0.9991	0.9982	0.768	0.00045	0.768	0.99909	0.00569	0.9991	0.00484	0.99646	0.99646	2.0	0.52359	0.78943
3.0	1.0	0.99702	0.99408	0.6713	0.00148	0.74586	0.99701	0.0192	0.99703	0.00265	0.98839	0.98834	1.99949	0.67046	0.75981
4.0	1.0	0.99592	0.99187	0.67746	0.00203	0.78383	0.9959	0.02586	0.99593	0.0019	0.98417	0.98402	1.99891	0.74991	0.7546
5.0	1.0	0.99299	0.98608	0.61632	0.00348	0.74609	0.99296	0.04282	0.99303	0.00131	0.97314	0.97276	1.99817	0.79891	0.74143
6.0	1.0	0.99178	0.98367	0.67143	0.00407	0.79715	0.99172	0.04762	0.99183	0.00098	0.96894	0.96821	1.9968	0.72347	0.73917
7.0	1.0	0.99061	0.98141	0.75982	0.00479	0.81972	0.99057	0.05571	0.99064	0.00069	0.96514	0.96382	1.99534	0.64319	0.69317
8.0	1.0	0.99103	0.98221	0.76265	0.00489	0.85289	0.99099	0.05459	0.99108	0.00064	0.96687	0.96532	1.9946	0.6869	0.68811
9.0	1.0	0.99259	0.98533	0.85299	0.00466	0.89736	0.99256	0.04647	0.99262	0.00057	0.97306	0.97147	1.99276	0.63107	0.682
10.0	1.0	0.99044	0.98105	0.79345	0.00549	0.88084	0.99036	0.05715	0.99052	0.00053	0.96551	0.96338	1.99277	0.65473	0.67008
11.0	1.0	0.98623	0.97275	0.71675	0.00702	0.84042	0.98609	0.07894	0.98637	0.00048	0.95072	0.94763	1.99278	0.67586	0.66464
12.0	1.0	0.98442	0.96926	0.72608	0.00769	0.84209	0.98423	0.08555	0.98461	0.00043	0.94528	0.9414	1.99201	0.62739	0.66141
13.0	1.0	0.97796	0.95684	0.67733	0.01073	0.81167	0.97752	0.11245	0.97841	0.00038	0.92528	0.91967	1.99128	0.65602	0.65762
14.0	1.0	0.97477	0.95097	0.7121	0.01331	0.81842	0.97422	0.12372	0.97533	0.00033	0.91755	0.9102	1.98864	0.61927	0.64371
15.0	1.0	0.96313	0.92874	0.62021	0.01882	0.76695	0.96198	0.17078	0.96428	0.00029	0.88301	0.8726	1.98865	0.63855	0.64233
16.0	1.0	0.95205	0.9077	0.5436	0.02368	0.72111	0.95029	0.21836	0.95381	0.00026	0.85078	0.83743	1.98865	0.66212	0.64092
17.0	1.0	0.94581	0.89607	0.54809	0.02642	0.71753	0.94379	0.23806	0.94784	0.00023	0.83578	0.81831	1.98763	0.63566	0.63788
18.0	1.0	0.93587	0.87829	0.53283	0.03096	0.68648	0.93377	0.27962	0.93799	0.0002	0.81161	0.78942	1.98659	0.6082	0.62358
19.0	1.0	0.9222	0.85349	0.48734	0.03747	0.651	0.91939	0.33477	0.92504	0.00018	0.77843	0.75088	1.98609	0.58728	0.61993
20.0	1.0	0.91357	0.83755	0.44966	0.04224	0.63351	0.90995	0.37254	0.91723	0.00017	0.75746	0.72691	1.9861	0.64911	0.61904

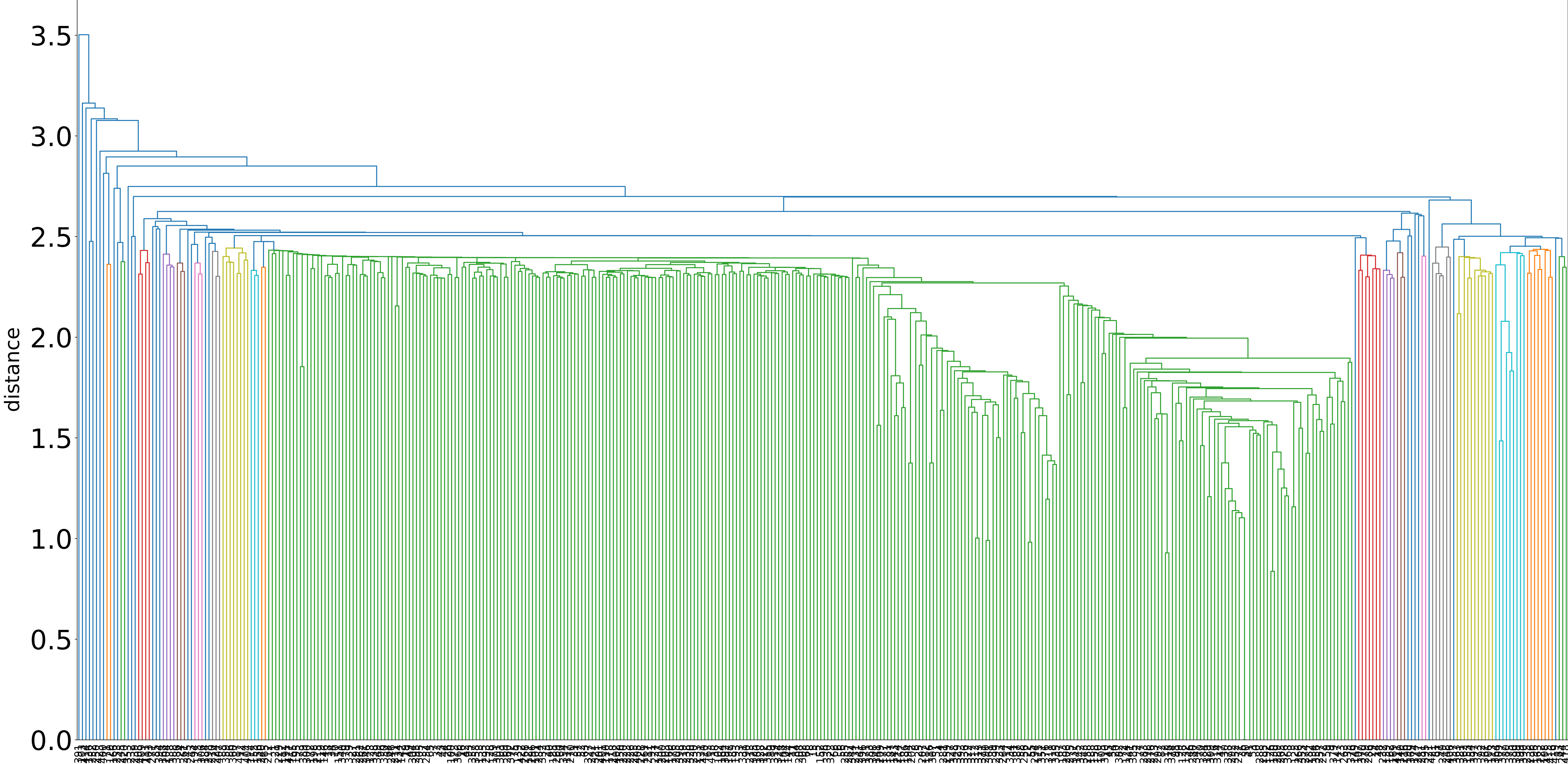
Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.00, Tp: 1.00, single link



Standard deviation of Huberts index versus number of clusters  
gap: 0.00, Tp: 1.00, single link



Hierarchical Clustering Dendrogram - gap: 0.10, Tp: 1.00, single link

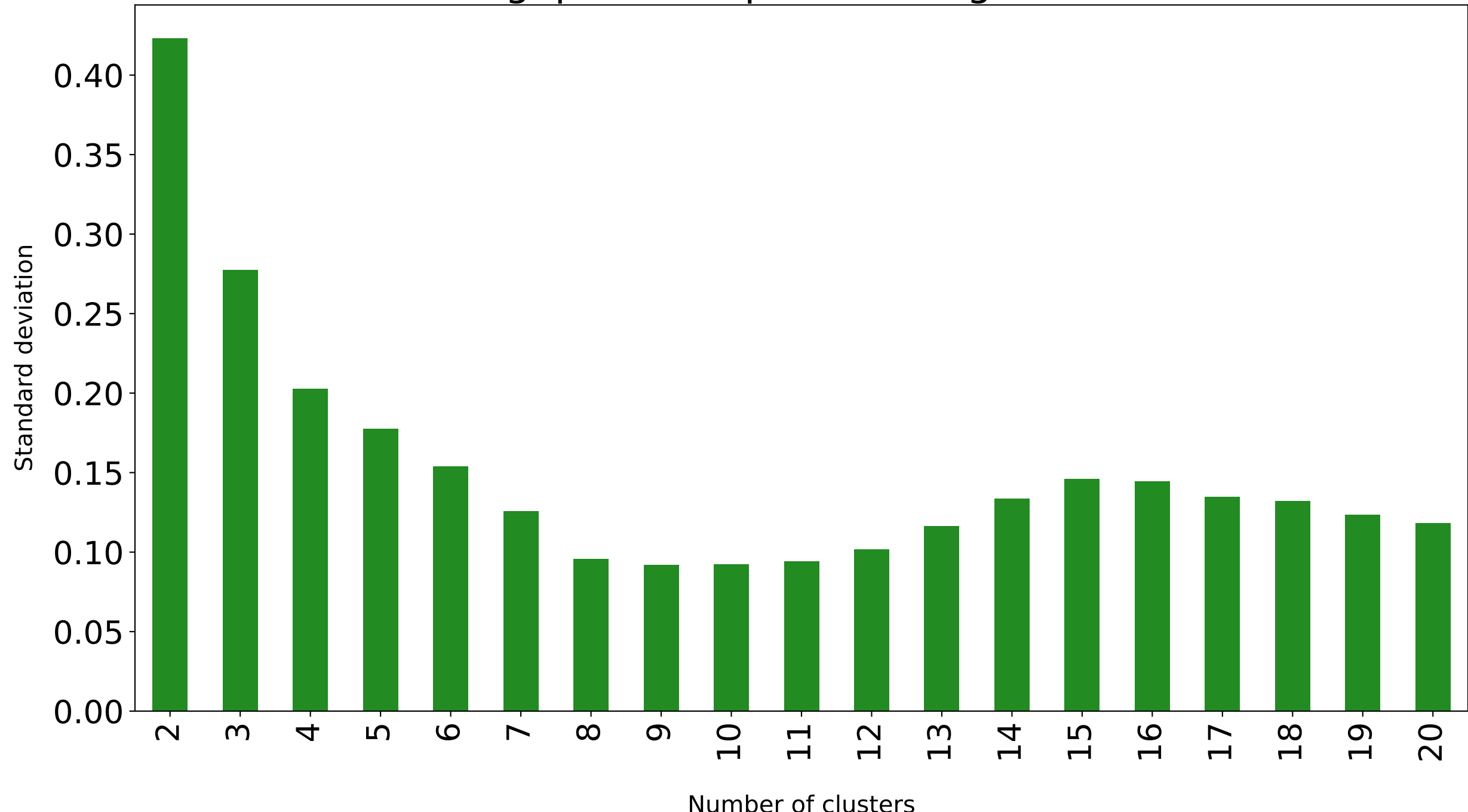


Cophenetic Correlation Coefficient: 0.45709077111645896

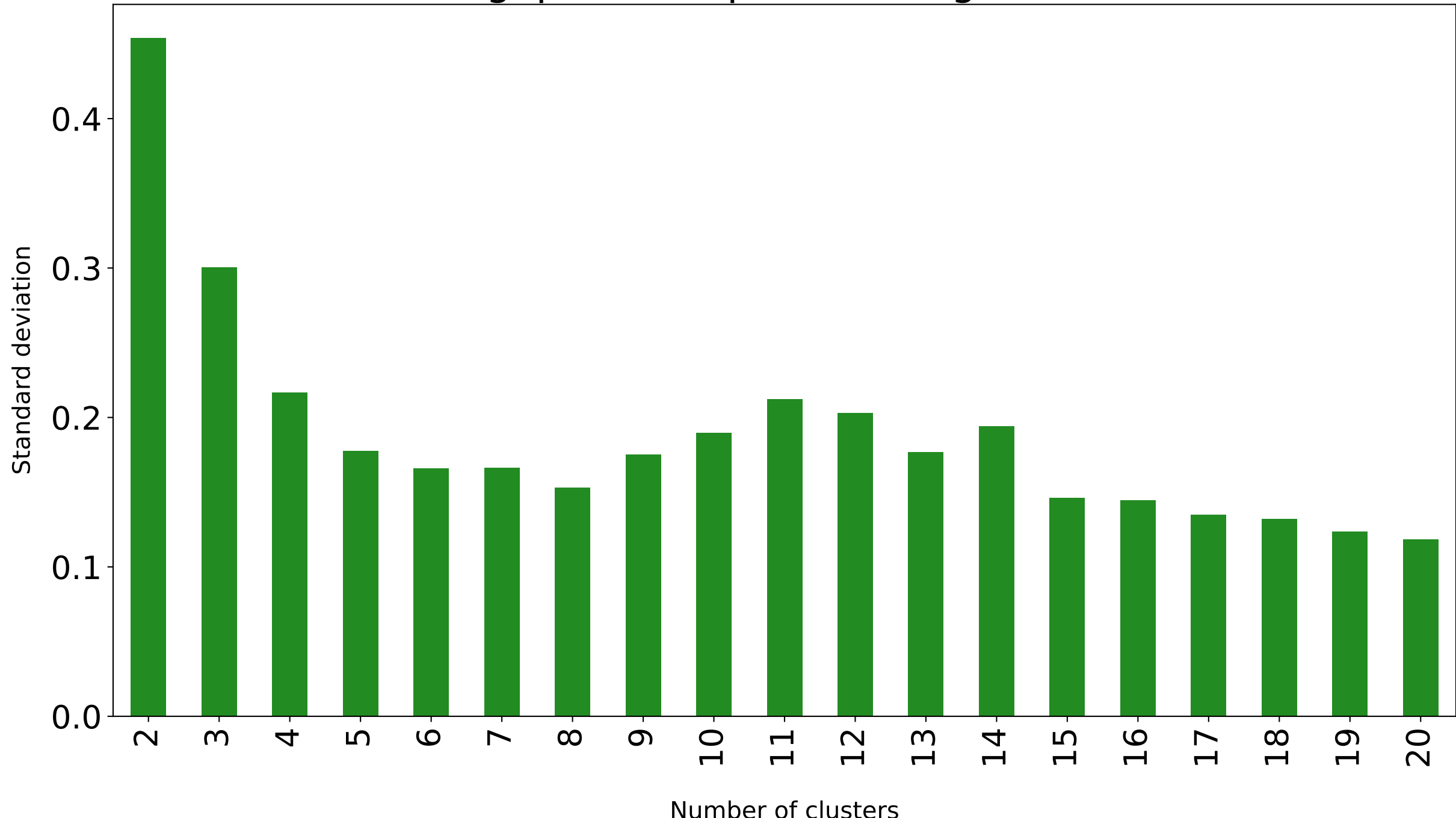
Average values of 20 clustering indices  
gap: 0.10, Tp: 1.00, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2.0	1.0	0.99894	0.99789	0.712	0.00053	0.712	0.99894	0.00691	0.99894	0.00448	0.99581	0.99581	2.0	0.52706	0.68898
3.0	1.0	0.99592	0.99189	0.57452	0.00203	0.65717	0.99591	0.02618	0.99593	0.00236	0.98412	0.98404	1.9995	0.66807	0.62215
4.0	1.0	0.99462	0.98931	0.60868	0.00269	0.72167	0.99461	0.03381	0.99464	0.00173	0.97922	0.97902	1.99886	0.74795	0.61734
5.0	1.0	0.99405	0.98818	0.71444	0.00296	0.80398	0.99402	0.03623	0.99407	0.00126	0.97732	0.97691	1.99738	0.6771	0.6068
6.0	1.0	0.99044	0.98111	0.66927	0.00476	0.79093	0.99033	0.05282	0.99055	0.00097	0.96465	0.96384	1.99657	0.72954	0.60563
7.0	1.0	0.98551	0.97147	0.60181	0.00733	0.75262	0.9853	0.07698	0.98572	0.00075	0.94745	0.94598	1.99582	0.76647	0.57563
8.0	1.0	0.98391	0.9685	0.67253	0.00828	0.79158	0.98364	0.08136	0.98418	0.0006	0.94344	0.94109	1.99388	0.70046	0.56999
9.0	1.0	0.98063	0.96255	0.75124	0.01033	0.82611	0.9801	0.08851	0.98116	0.0005	0.93602	0.93249	1.99265	0.6468	0.56108
10.0	1.0	0.97175	0.94574	0.66694	0.01482	0.78878	0.97069	0.12149	0.97283	0.00044	0.90983	0.9047	1.99265	0.66784	0.55398
11.0	1.0	0.95149	0.9077	0.54921	0.0253	0.69998	0.94927	0.1925	0.95372	0.00035	0.85132	0.84247	1.99242	0.69792	0.5411
12.0	1.0	0.93425	0.87548	0.44399	0.03365	0.62978	0.93087	0.25418	0.93766	0.00029	0.80267	0.79085	1.99243	0.70957	0.53932
13.0	1.0	0.91261	0.83571	0.36235	0.04428	0.56134	0.90781	0.32869	0.91745	0.00022	0.74555	0.72869	1.99162	0.66058	0.53132
14.0	1.0	0.95318	0.91153	0.78191	0.02457	0.80971	0.95201	0.19617	0.95434	0.00017	0.8712	0.84606	1.97245	0.62299	0.53413
15.0	1.0	0.95418	0.91241	0.75495	0.02322	0.83444	0.95292	0.19662	0.95545	0.00017	0.87572	0.84548	1.97251	0.64829	0.53112
16.0	1.0	0.95407	0.91223	0.82485	0.02726	0.85056	0.95346	0.21502	0.95468	0.00016	0.88037	0.84191	1.96232	0.61751	0.53324
17.0	1.0	0.95658	0.91654	0.80871	0.02531	0.86547	0.95588	0.207	0.95728	0.00016	0.88792	0.84906	1.96243	0.58585	0.53151
18.0	1.0	0.95551	0.91417	0.78547	0.0264	0.8674	0.95457	0.21522	0.95646	0.00016	0.88613	0.84508	1.96244	0.60514	0.5302
19.0	1.0	0.95045	0.90504	0.75749	0.02918	0.86102	0.94869	0.23065	0.95225	0.00016	0.87694	0.83211	1.96245	0.62546	0.52886
20.0	1.0	0.94773	0.90064	0.76793	0.03102	0.85794	0.94599	0.23983	0.94951	0.00015	0.87386	0.82559	1.9609	0.60608	0.52596

Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.10, Tp: 1.00, single link

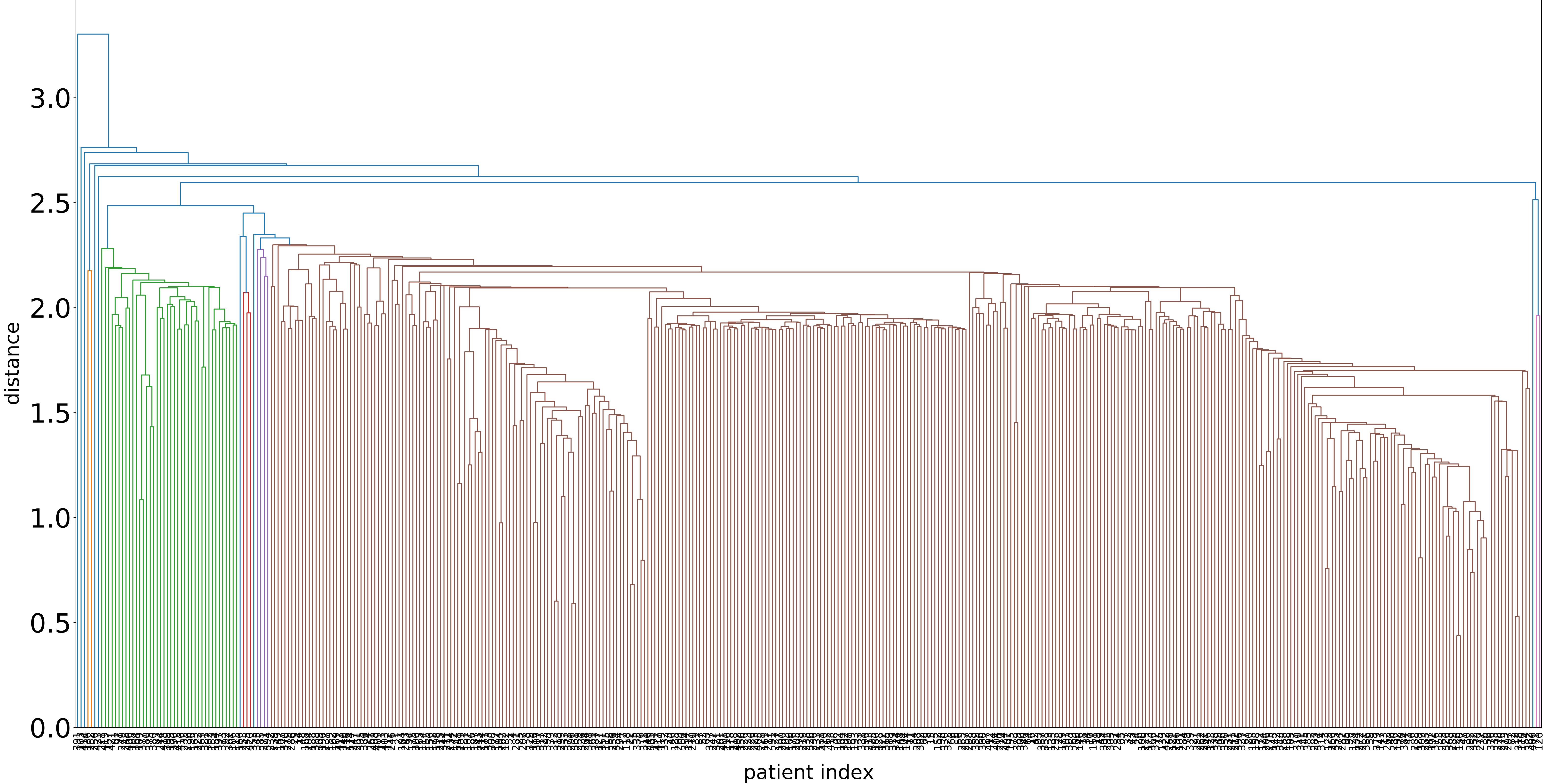


Standard deviation of Huberts index versus number of clusters  
gap: 0.10, Tp: 1.00, single link





Hierarchical Clustering Dendrogram - gap: 0.20, Tp: 1.00, single link

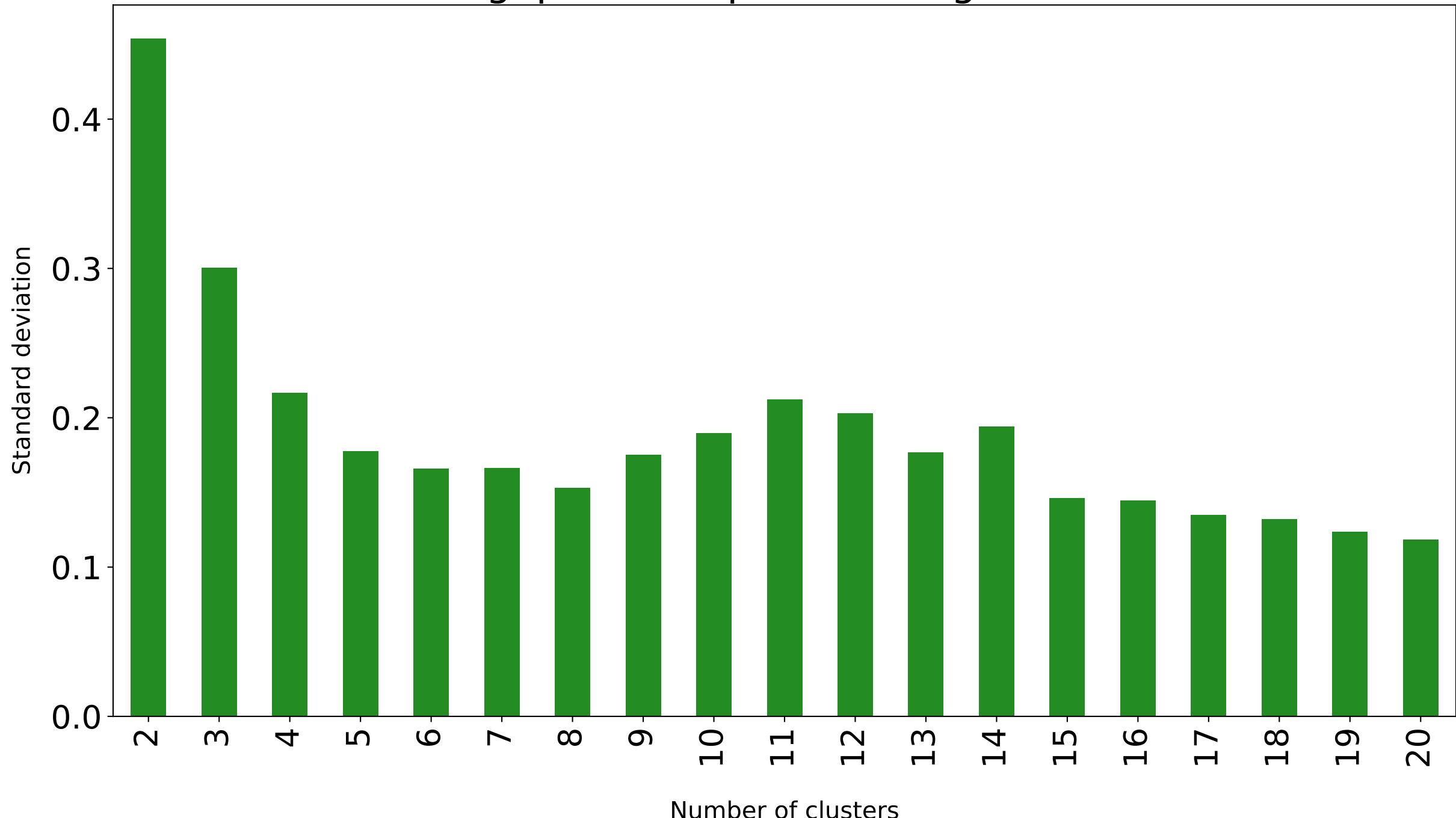


Cophenetic Correlation Coefficient: 0.5092432068124515

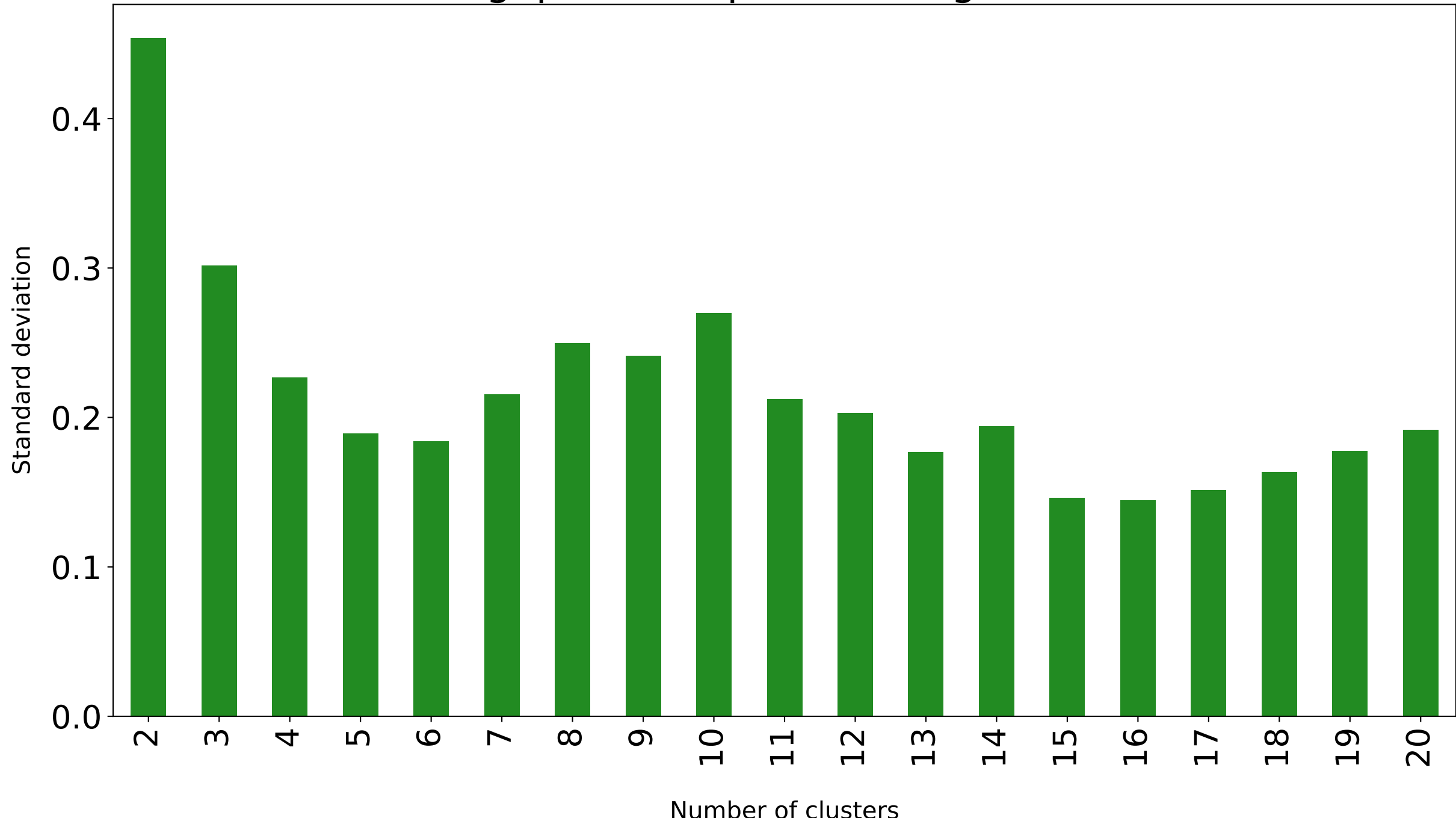
Average values of 20 clustering indices  
gap: 0.20, Tp: 1.00, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2.0	1.0	0.99862	0.99727	0.77997	0.00069	0.77997	0.99861	0.00778	0.99863	0.00491	0.9947	0.9947	2.0	0.53067	0.60226
3.0	1.0	0.99321	0.98658	0.52919	0.0034	0.60241	0.99316	0.03873	0.99325	0.00211	0.97425	0.97412	1.99952	0.66527	0.50383
4.0	1.0	0.99033	0.98093	0.53983	0.00486	0.65316	0.99024	0.05314	0.99041	0.00149	0.96382	0.96345	1.99881	0.74562	0.49937
5.0	1.0	0.9894	0.9791	0.63202	0.00547	0.7327	0.9893	0.05844	0.9895	0.0011	0.96077	0.96002	1.99718	0.68355	0.4896
6.0	1.0	0.98546	0.97165	0.62356	0.00749	0.74679	0.98515	0.07297	0.98577	0.0009	0.94875	0.94756	1.99631	0.73427	0.48844
7.0	1.0	0.97556	0.95305	0.58393	0.01264	0.7267	0.97465	0.10585	0.97648	0.00071	0.91936	0.91725	1.99554	0.76973	0.47887
8.0	1.0	0.95962	0.92325	0.56465	0.0211	0.69089	0.95778	0.15639	0.96148	0.00049	0.87368	0.86901	1.99343	0.71307	0.47365
9.0	1.0	0.93148	0.87081	0.39748	0.03535	0.57699	0.92765	0.25471	0.93536	0.00035	0.79362	0.7857	1.99344	0.72782	0.45881
10.0	1.0	0.94345	0.89473	0.7141	0.02811	0.73383	0.94202	0.21285	0.94489	0.00017	0.84268	0.82113	1.97252	0.66981	0.45625
11.0	1.0	0.94839	0.90284	0.74232	0.02506	0.80354	0.94692	0.1961	0.94988	0.00017	0.86142	0.83244	1.97132	0.6331	0.44973
12.0	1.0	0.94733	0.90071	0.7279	0.02603	0.82573	0.94532	0.19918	0.94939	0.00017	0.86316	0.82989	1.9709	0.66358	0.43109
13.0	1.0	0.94103	0.88867	0.69357	0.02972	0.82074	0.93803	0.222	0.94412	0.00017	0.84995	0.8112	1.97091	0.67265	0.42944
14.0	1.0	0.93347	0.87624	0.6927	0.03448	0.80911	0.92993	0.24363	0.93716	0.00016	0.83823	0.79413	1.96827	0.62806	0.42797
15.0	0.99999	0.92553	0.86263	0.67225	0.03913	0.79582	0.92116	0.26841	0.9301	0.00015	0.82415	0.77464	1.96705	0.59045	0.42198
16.0	0.99999	0.91767	0.84945	0.65523	0.04432	0.78685	0.91188	0.2886	0.92377	0.00015	0.8119	0.75809	1.96619	0.61594	0.42108
17.0	0.99999	0.90732	0.83185	0.62505	0.05085	0.77124	0.89971	0.31748	0.91539	0.00015	0.79394	0.73538	1.96627	0.63879	0.41872
18.0	0.99998	0.88864	0.80062	0.5786	0.06263	0.74072	0.87799	0.36726	0.90004	0.00014	0.76174	0.69554	1.96628	0.65812	0.41776
19.0	0.99966	0.87565	0.78226	0.6048	0.07104	0.72788	0.86459	0.3844	0.88749	0.00013	0.7527	0.67437	1.96084	0.6249	0.41388
20.0	1.00001	0.86941	0.77463	0.64855	0.08226	0.74482	0.85705	0.38059	0.88255	0.00013	0.76232	0.67127	1.94823	0.60246	0.42801

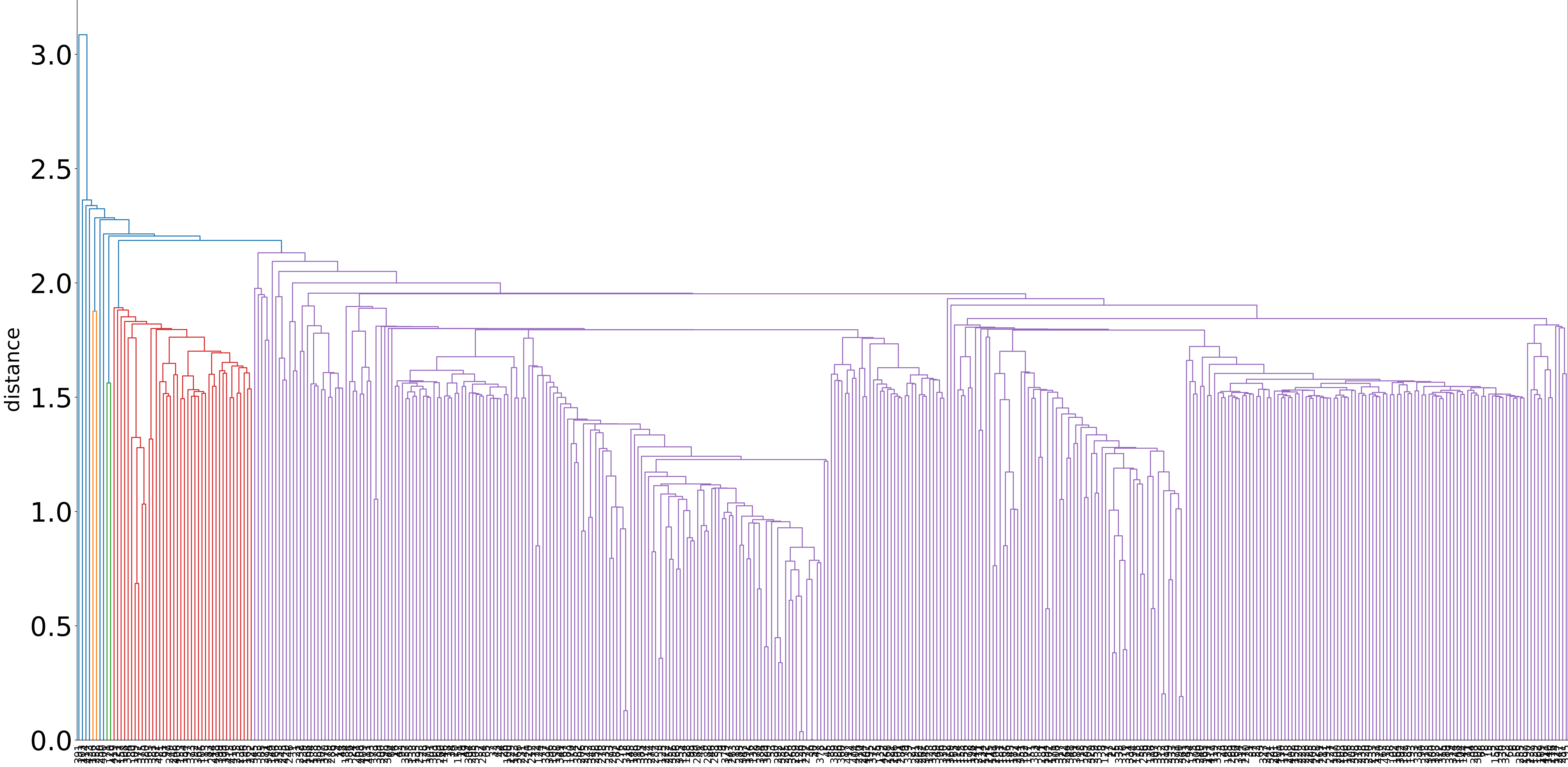
Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.20, Tp: 1.00, single link



Standard deviation of Huberts index versus number of clusters  
gap: 0.20, Tp: 1.00, single link



Hierarchical Clustering Dendrogram - gap: 0.30, Tp: 1.00, single link

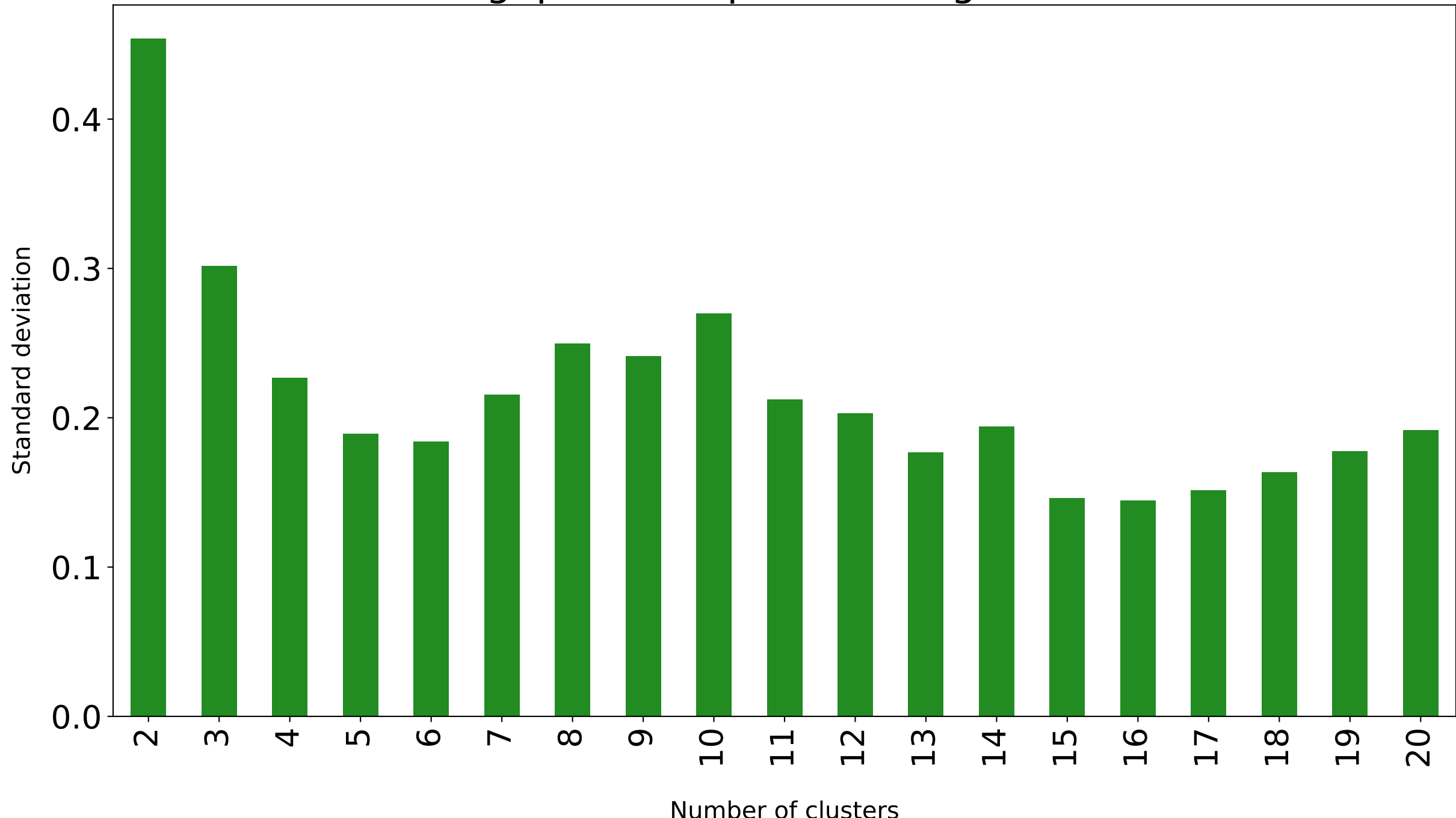


Cophenetic Correlation Coefficient: 0.5570234423708483

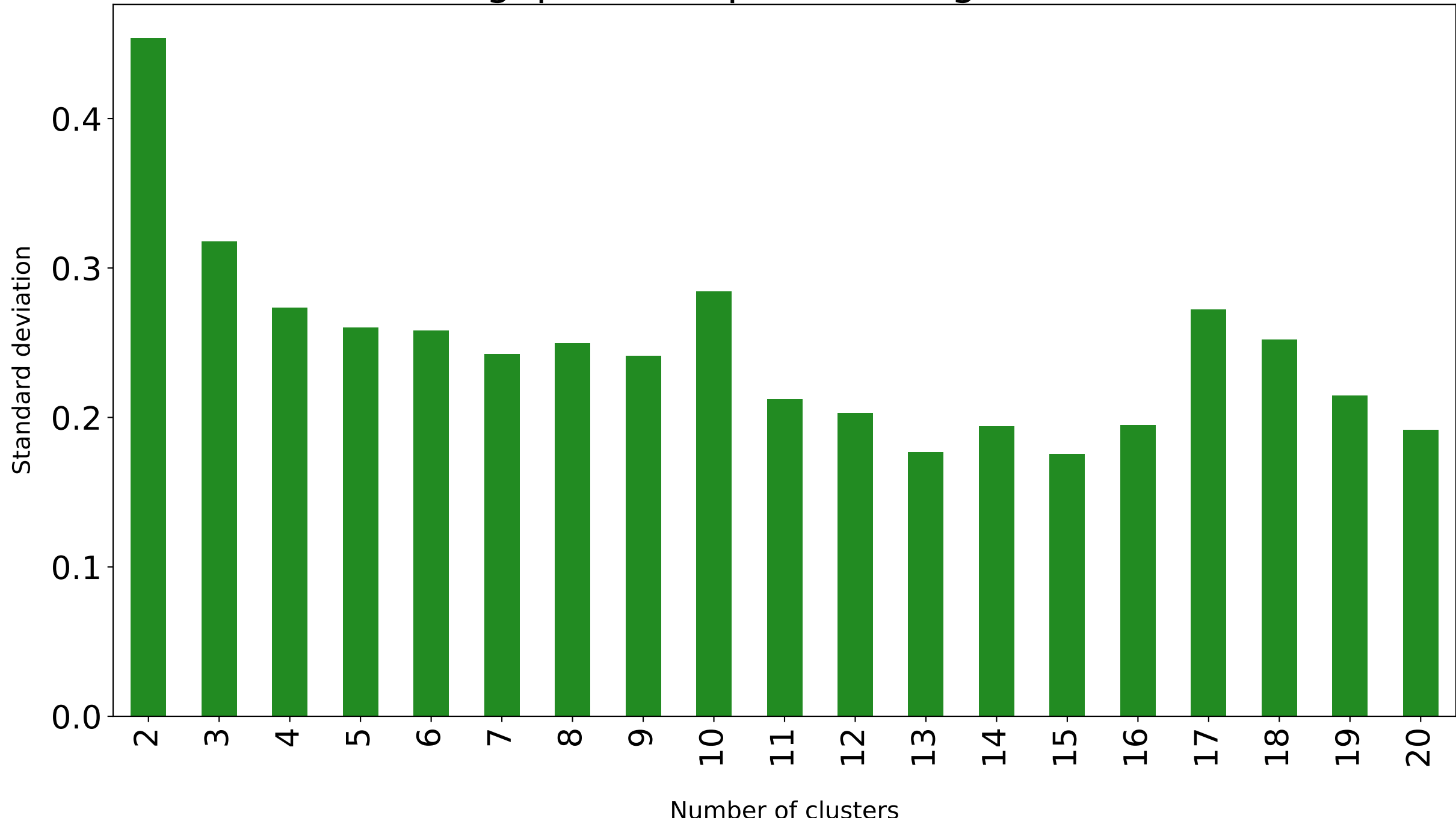
Average values of 20 clustering indices  
gap: 0.30, Tp: 1.00, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2.0	1.0	0.99614	0.99258	0.776	0.00202	0.776	0.996	0.0161	0.99629	0.00489	0.98685	0.98685	2.0	0.53445	0.52446
3.0	1.0	0.982	0.96529	0.40291	0.00923	0.48742	0.98152	0.0819	0.98249	0.00158	0.93766	0.93737	1.99953	0.66195	0.4016
4.0	1.0	0.97322	0.94891	0.41796	0.01408	0.54521	0.97223	0.11607	0.97423	0.00115	0.91153	0.91072	1.99875	0.74286	0.39744
5.0	1.0	0.9643	0.93184	0.39824	0.0187	0.54438	0.96288	0.14983	0.96574	0.00084	0.88323	0.88163	1.99797	0.78926	0.39503
6.0	1.0	0.9578	0.91961	0.43388	0.02209	0.58143	0.95605	0.17073	0.95956	0.00063	0.8644	0.86148	1.99617	0.73731	0.38834
7.0	1.0	0.93978	0.88592	0.35336	0.03108	0.5244	0.93687	0.23416	0.94272	0.00045	0.81206	0.80726	1.99523	0.77265	0.38719
8.0	1.0	0.92273	0.85466	0.29125	0.03979	0.47664	0.91853	0.29413	0.92699	0.00033	0.76567	0.75882	1.9943	0.79599	0.37658
9.0	1.0	0.90228	0.81761	0.23643	0.05002	0.42934	0.89662	0.36477	0.90802	0.00023	0.71276	0.70253	1.99295	0.73819	0.37502
10.0	1.0	0.92486	0.86331	0.60963	0.03659	0.6898	0.92298	0.27141	0.92677	0.00015	0.80358	0.77389	1.96932	0.68005	0.37375
11.0	1.0	0.93382	0.87828	0.68312	0.03309	0.77477	0.93113	0.22877	0.9366	0.00016	0.83345	0.79822	1.96559	0.63243	0.3645
12.0	1.0	0.92902	0.86839	0.66199	0.03679	0.79078	0.92481	0.24286	0.93342	0.00016	0.82639	0.78324	1.96444	0.65813	0.35809
13.0	0.99999	0.91679	0.84823	0.64979	0.04409	0.77355	0.91147	0.27749	0.92237	0.00015	0.80703	0.75628	1.96358	0.63273	0.35058
14.0	0.99999	0.8981	0.81719	0.6158	0.05612	0.74267	0.89056	0.32456	0.90607	0.00014	0.77583	0.71548	1.96173	0.60657	0.34197
15.0	0.99999	0.88054	0.78807	0.57375	0.06903	0.72089	0.86943	0.36265	0.89238	0.00014	0.74798	0.68088	1.96175	0.62953	0.33789
16.0	1.0	0.85068	0.74188	0.56641	0.09064	0.69155	0.83608	0.39788	0.86621	0.00012	0.71602	0.62718	1.95398	0.59331	0.33428
17.0	1.00002	0.8132	0.69678	0.81862	0.11789	0.6753	0.79864	0.44816	0.82843	0.00012	0.71527	0.58747	1.8243	0.55705	0.33384
18.0	1.0	0.86477	0.77594	0.83287	0.08309	0.77001	0.85543	0.34522	0.8745	0.00014	0.79967	0.68152	1.82432	0.57775	0.33322
19.0	1.0	0.89975	0.82952	0.84122	0.05944	0.83432	0.89393	0.27706	0.90577	0.00015	0.85699	0.74483	1.82435	0.59031	0.33168
20.0	1.0	0.91978	0.85782	0.84609	0.04558	0.87287	0.91584	0.23951	0.92382	0.00016	0.8896	0.77411	1.82436	0.61414	0.33135

Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.30, Tp: 1.00, single link

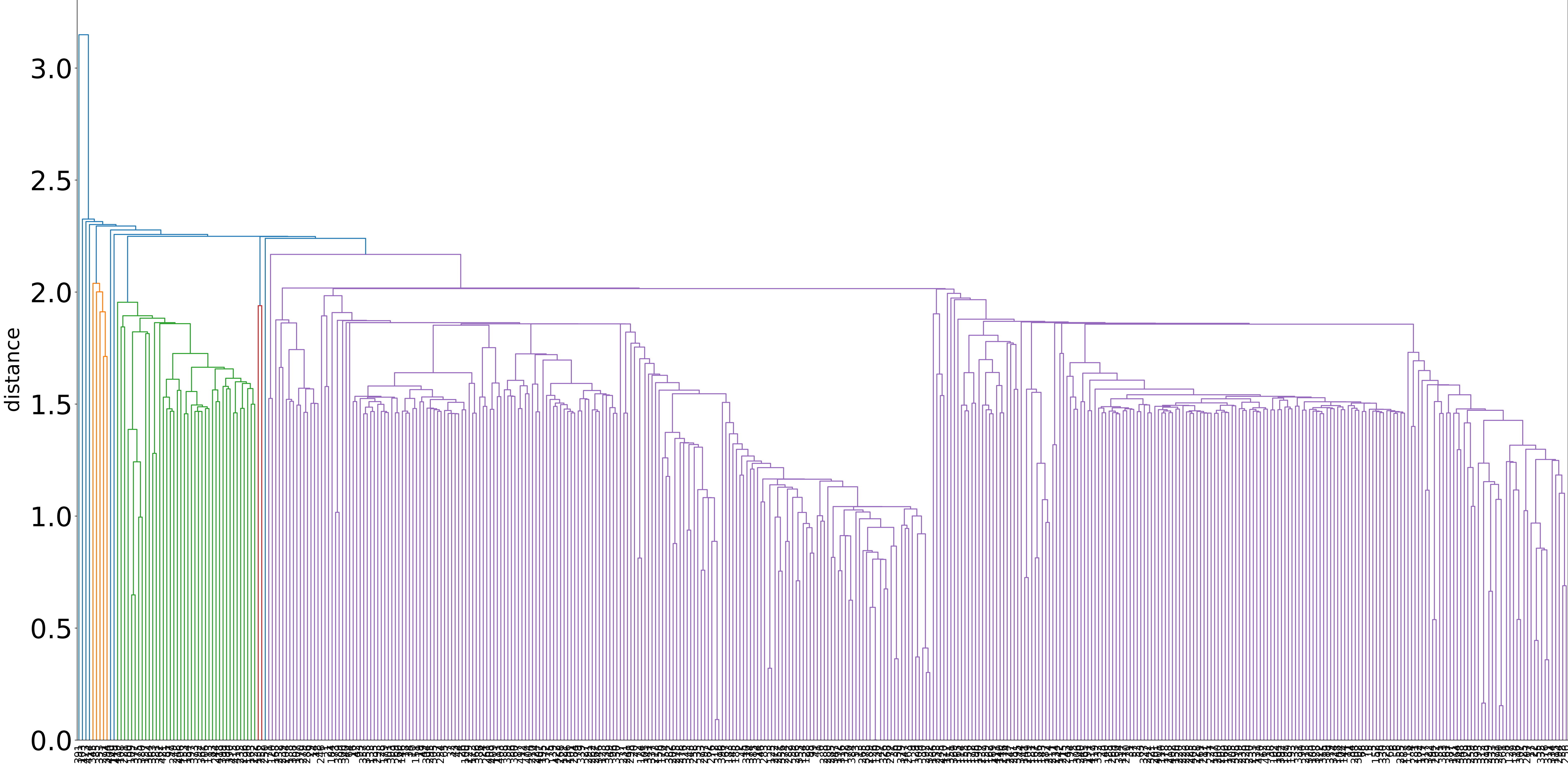


Standard deviation of Huberts index versus number of clusters  
gap: 0.30, Tp: 1.00, single link





Hierarchical Clustering Dendrogram - gap: 0.40, Tp: 1.00, single link

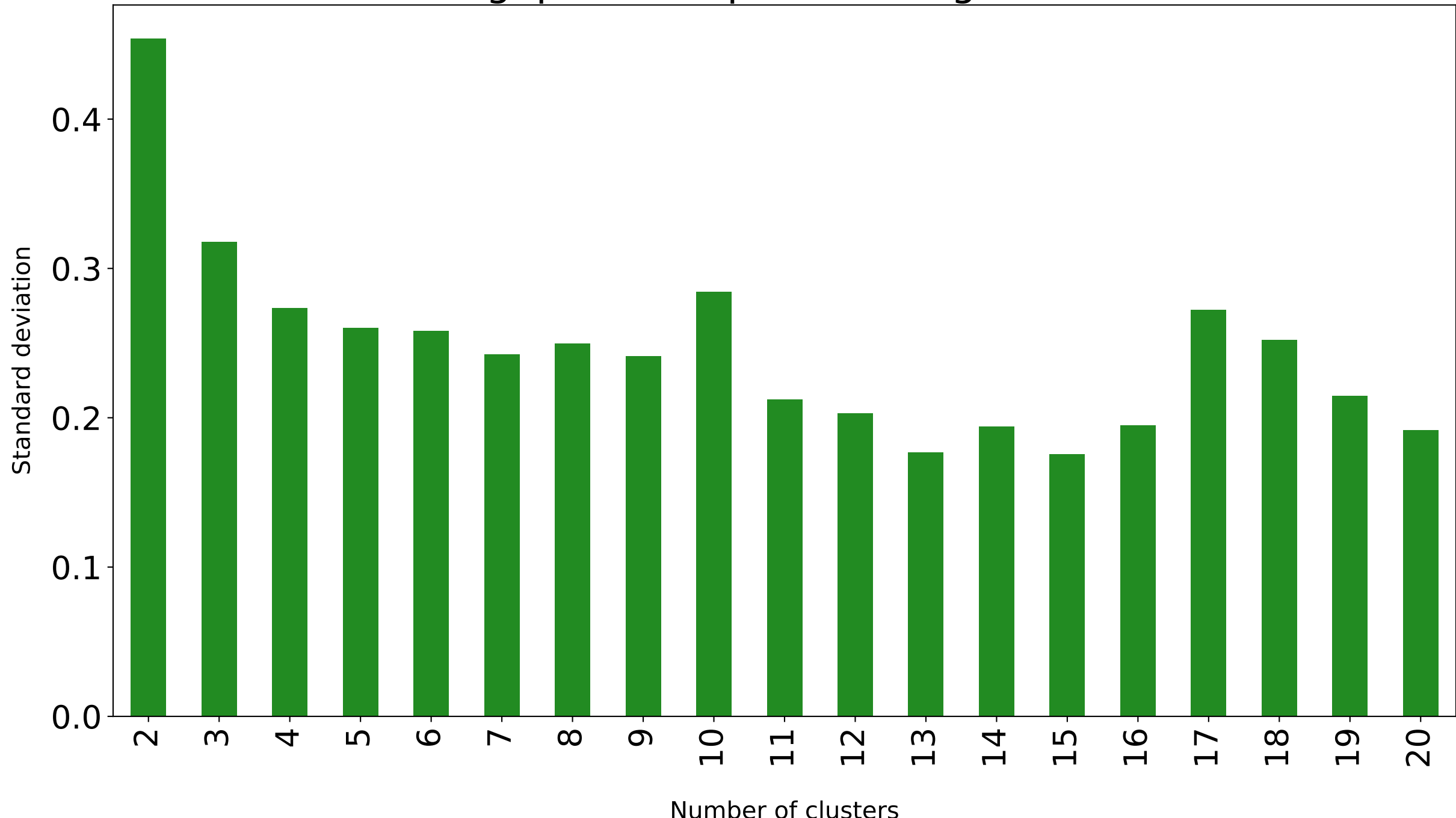


Cophenetic Correlation Coefficient: 0.5751789667846694

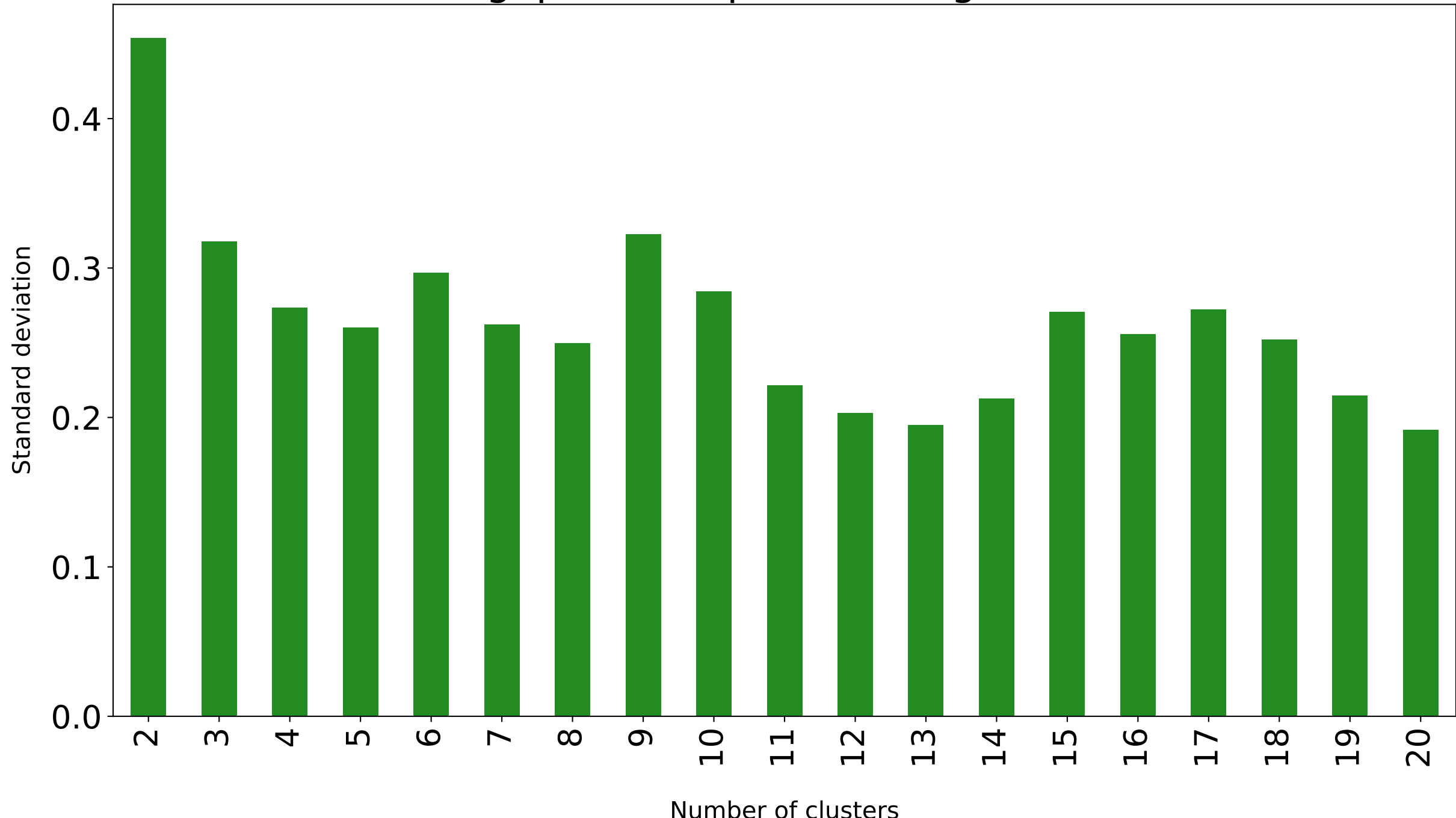
Average values of 20 clustering indices  
gap: 0.40, Tp: 1.00, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2.0	1.0	0.99185	0.98429	0.75597	0.00424	0.75596	0.99156	0.0318	0.99214	0.00476	0.97226	0.97226	2.0	0.53507	0.47373
3.0	1.0	0.96133	0.92593	0.21349	0.01987	0.31114	0.96007	0.15975	0.96261	0.00092	0.87037	0.86981	1.9996	0.65903	0.34993
4.0	1.0	0.9371	0.88123	0.17268	0.0329	0.27895	0.9343	0.25474	0.93992	0.00052	0.80046	0.79897	1.99887	0.73608	0.34824
5.0	1.0	0.92746	0.86415	0.20226	0.03818	0.34355	0.92369	0.29173	0.93128	0.00046	0.77749	0.7749	1.99809	0.78665	0.34625
6.0	1.0	0.9239	0.85892	0.33322	0.03986	0.45278	0.92018	0.29485	0.92767	0.00034	0.77433	0.76865	1.99516	0.67819	0.34525
7.0	1.0	0.91548	0.84349	0.30984	0.04421	0.45685	0.91094	0.32082	0.92011	0.00029	0.75276	0.74505	1.99418	0.71956	0.34262
8.0	1.0	0.90663	0.82681	0.27695	0.04891	0.45438	0.90126	0.34855	0.91211	0.00024	0.72887	0.71863	1.99309	0.75325	0.3396
9.0	1.0	0.9071	0.83436	0.56464	0.04696	0.60374	0.90481	0.32352	0.90944	0.00014	0.76282	0.73372	1.96894	0.68609	0.33834
10.0	1.0	0.91355	0.84494	0.60518	0.04562	0.68961	0.91005	0.29314	0.91716	0.00015	0.78764	0.75171	1.96665	0.66018	0.33819
11.0	1.0	0.91226	0.84187	0.61628	0.04842	0.73882	0.9065	0.28566	0.9183	0.00015	0.79395	0.75055	1.96546	0.68934	0.33875
12.0	0.99999	0.89637	0.8148	0.59451	0.05984	0.73467	0.88729	0.31521	0.90599	0.00015	0.77052	0.71717	1.96379	0.65876	0.32793
13.0	0.99998	0.86927	0.77002	0.53486	0.07874	0.69993	0.85506	0.37582	0.88447	0.00014	0.72633	0.66286	1.96381	0.68356	0.30843
14.0	0.99997	0.83353	0.71575	0.52192	0.10192	0.65378	0.81614	0.43616	0.8521	0.00012	0.68461	0.59885	1.9561	0.63835	0.30523
15.0	0.99999	0.81131	0.69208	0.80101	0.11879	0.66728	0.79701	0.45842	0.82628	0.00012	0.70876	0.57648	1.8214	0.60502	0.30484
16.0	1.00005	0.85621	0.76185	0.82649	0.0877	0.75485	0.84595	0.3673	0.86693	0.00013	0.78624	0.66279	1.822	0.57658	0.30452
17.0	1.00005	0.88951	0.81251	0.83337	0.06531	0.81746	0.88251	0.29993	0.89679	0.00014	0.84173	0.72278	1.82203	0.59946	0.30264
18.0	0.99999	0.91024	0.84268	0.83924	0.05121	0.85734	0.90506	0.25744	0.91559	0.00015	0.87603	0.75635	1.82051	0.62119	0.30162
19.0	1.00001	0.92595	0.86686	0.84986	0.04077	0.88706	0.92224	0.22037	0.92976	0.00016	0.90278	0.7862	1.81862	0.60214	0.30006
20.0	1.0	0.93324	0.87689	0.84963	0.03583	0.90127	0.93007	0.20472	0.93648	0.00016	0.91484	0.7963	1.81649	0.62109	0.30804

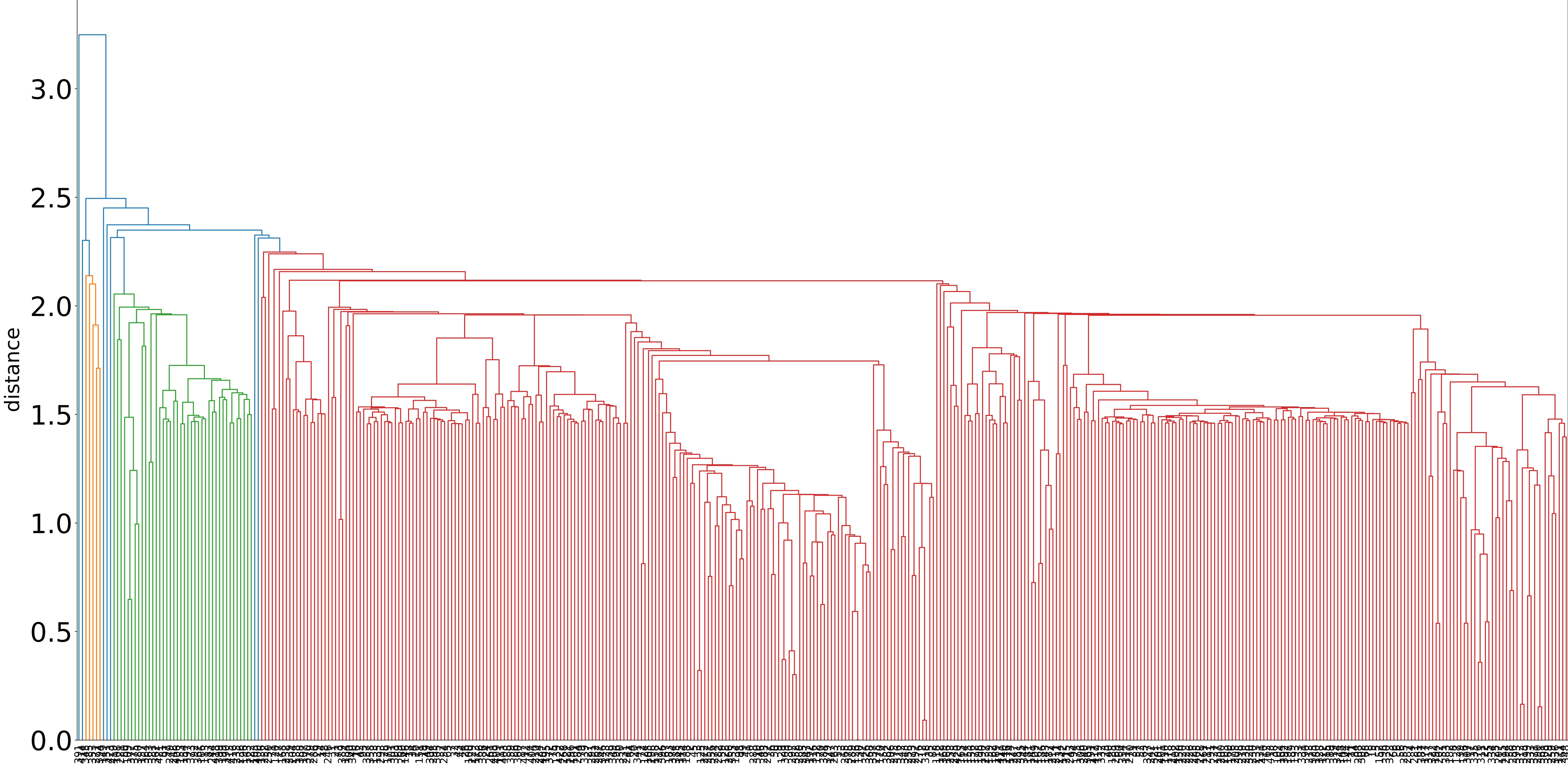
Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.40, Tp: 1.00, single link



Standard deviation of Huberts index versus number of clusters  
gap: 0.40, Tp: 1.00, single link



Hierarchical Clustering Dendrogram - gap: 0.50, Tp: 1.00, single link



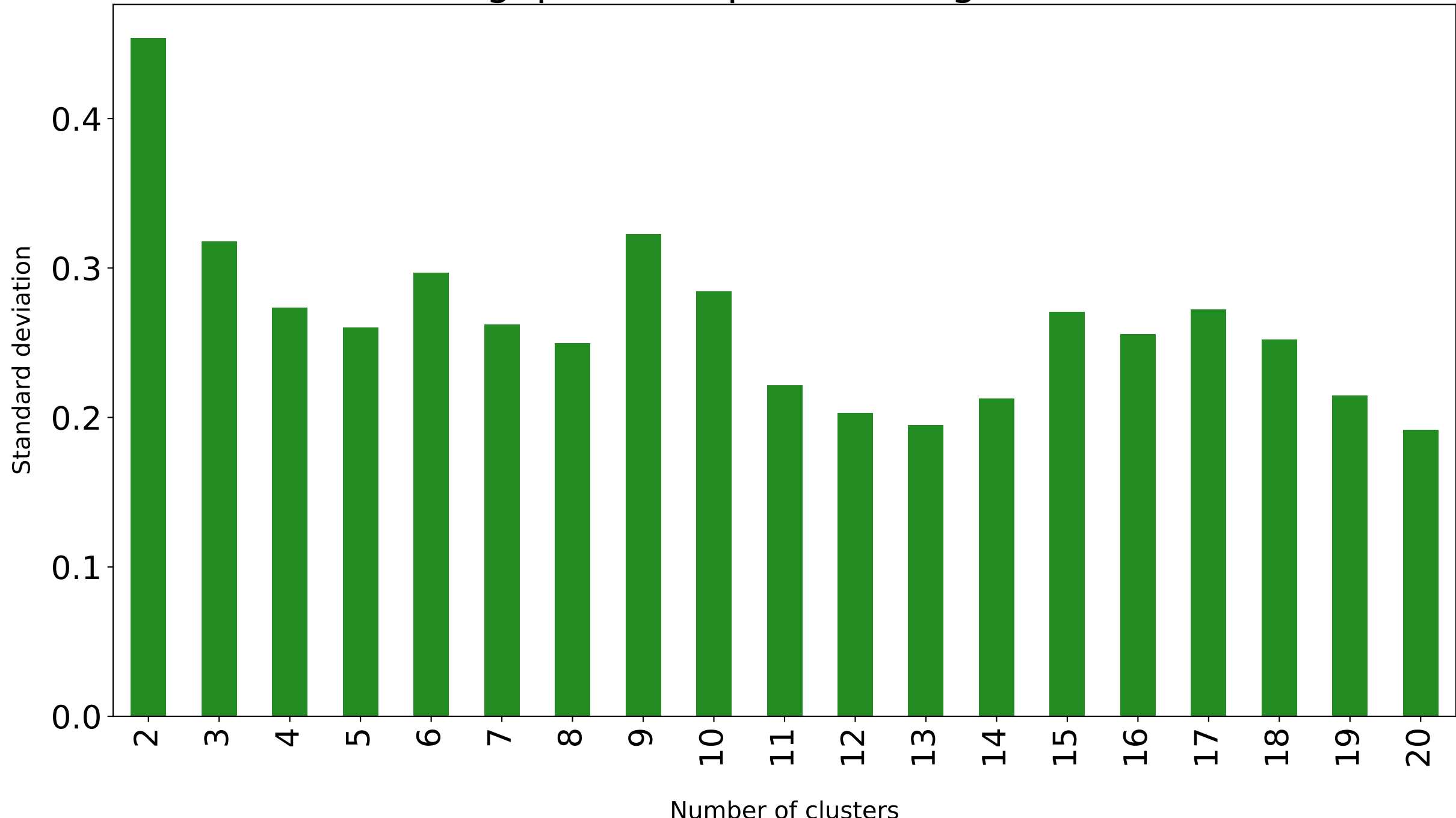
patient index

Cophenetic Correlation Coefficient: 0.5960250433117592

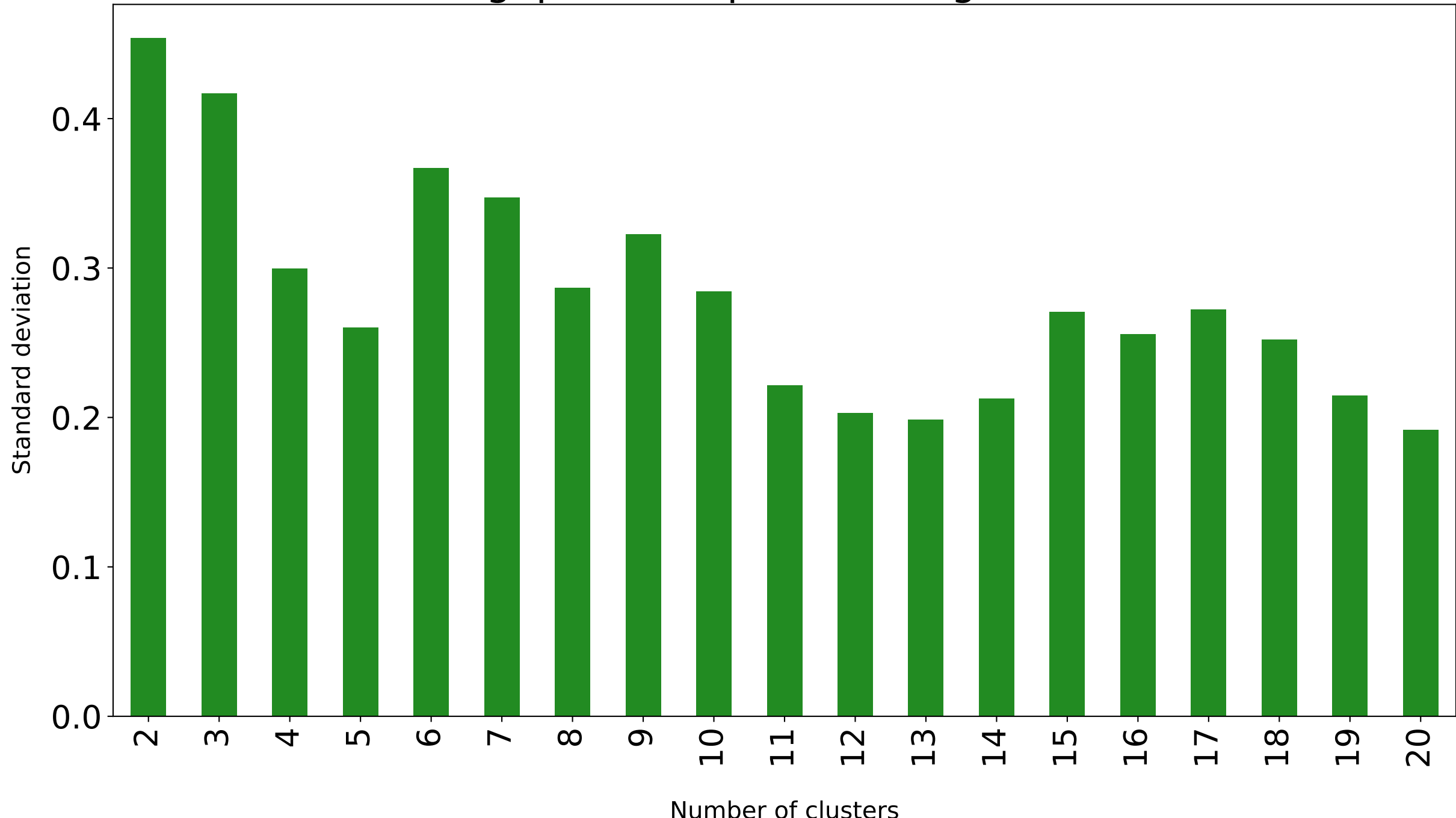
Average values of 20 clustering indices  
gap: 0.50, Tp: 1.00, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2.0	1.0	0.99436	0.989	0.75199	0.00289	0.75198	0.99422	0.02451	0.9945	0.00474	0.97985	0.97985	2.0	0.5353	0.43627
3.0	1.0	0.96416	0.93254	0.51695	0.01853	0.53713	0.96338	0.14481	0.96495	0.0007	0.88411	0.88294	1.99615	0.50157	0.33502
4.0	1.0	0.94331	0.8931	0.37756	0.02939	0.49043	0.94135	0.2232	0.94528	0.00046	0.8214	0.81724	1.99493	0.62214	0.32913
5.0	1.0	0.92397	0.85736	0.30008	0.03942	0.45865	0.92045	0.29112	0.92753	0.00032	0.76856	0.76156	1.9929	0.6943	0.31887
6.0	1.0	0.89976	0.82358	0.52976	0.0505	0.51037	0.89823	0.35133	0.90129	0.00012	0.73985	0.71877	1.96779	0.64675	0.32595
7.0	1.0	0.91221	0.84521	0.58496	0.04447	0.62464	0.91028	0.31125	0.91418	0.00014	0.77906	0.75305	1.9673	0.68298	0.32276
8.0	1.0	0.92436	0.86375	0.62767	0.03869	0.71589	0.92168	0.27347	0.92712	0.00016	0.81048	0.7794	1.96748	0.68341	0.32121
9.0	1.0	0.93234	0.87578	0.66492	0.03453	0.77297	0.92934	0.24505	0.93545	0.00016	0.83047	0.79585	1.96623	0.71393	0.32088
10.0	1.0	0.93073	0.87195	0.66227	0.03618	0.79045	0.92652	0.24474	0.93513	0.00017	0.82938	0.79067	1.96625	0.71218	0.31937
11.0	1.0	0.92663	0.86542	0.66688	0.03948	0.79425	0.92144	0.2491	0.93208	0.00016	0.82545	0.78389	1.96398	0.68645	0.31194
12.0	0.99999	0.91178	0.84084	0.63637	0.04887	0.77246	0.9041	0.28276	0.91993	0.00016	0.80071	0.75346	1.96282	0.71079	0.3108
13.0	0.99999	0.88697	0.80039	0.59129	0.06521	0.73377	0.87556	0.33855	0.89916	0.00015	0.76014	0.70355	1.96124	0.6828	0.30087
14.0	0.99999	0.86182	0.7587	0.5345	0.08269	0.6932	0.84647	0.39076	0.87825	0.00014	0.71753	0.65119	1.95982	0.70532	0.29942
15.0	0.99997	0.81578	0.68431	0.43892	0.11357	0.62387	0.79206	0.49393	0.84143	0.00012	0.64346	0.56262	1.95984	0.72566	0.29685
16.0	1.00001	0.78176	0.63029	0.41297	0.13626	0.58655	0.75452	0.52666	0.81105	0.00011	0.60663	0.49661	1.95179	0.68371	0.29392
17.0	0.99987	0.87415	0.79049	0.82613	0.07619	0.78819	0.86598	0.31672	0.88265	0.00014	0.81694	0.69927	1.81391	0.65015	0.29356
18.0	1.0	0.90819	0.84208	0.83515	0.05282	0.85271	0.90335	0.25128	0.91318	0.00015	0.8741	0.75966	1.81179	0.66858	0.30722
19.0	1.00002	0.92027	0.85832	0.82859	0.04371	0.8773	0.91665	0.22991	0.92395	0.00016	0.89524	0.77411	1.81181	0.68562	0.3071
20.0	1.0	0.92893	0.86972	0.82819	0.03797	0.89465	0.92577	0.21459	0.93215	0.00016	0.90956	0.78518	1.81015	0.70116	0.30612

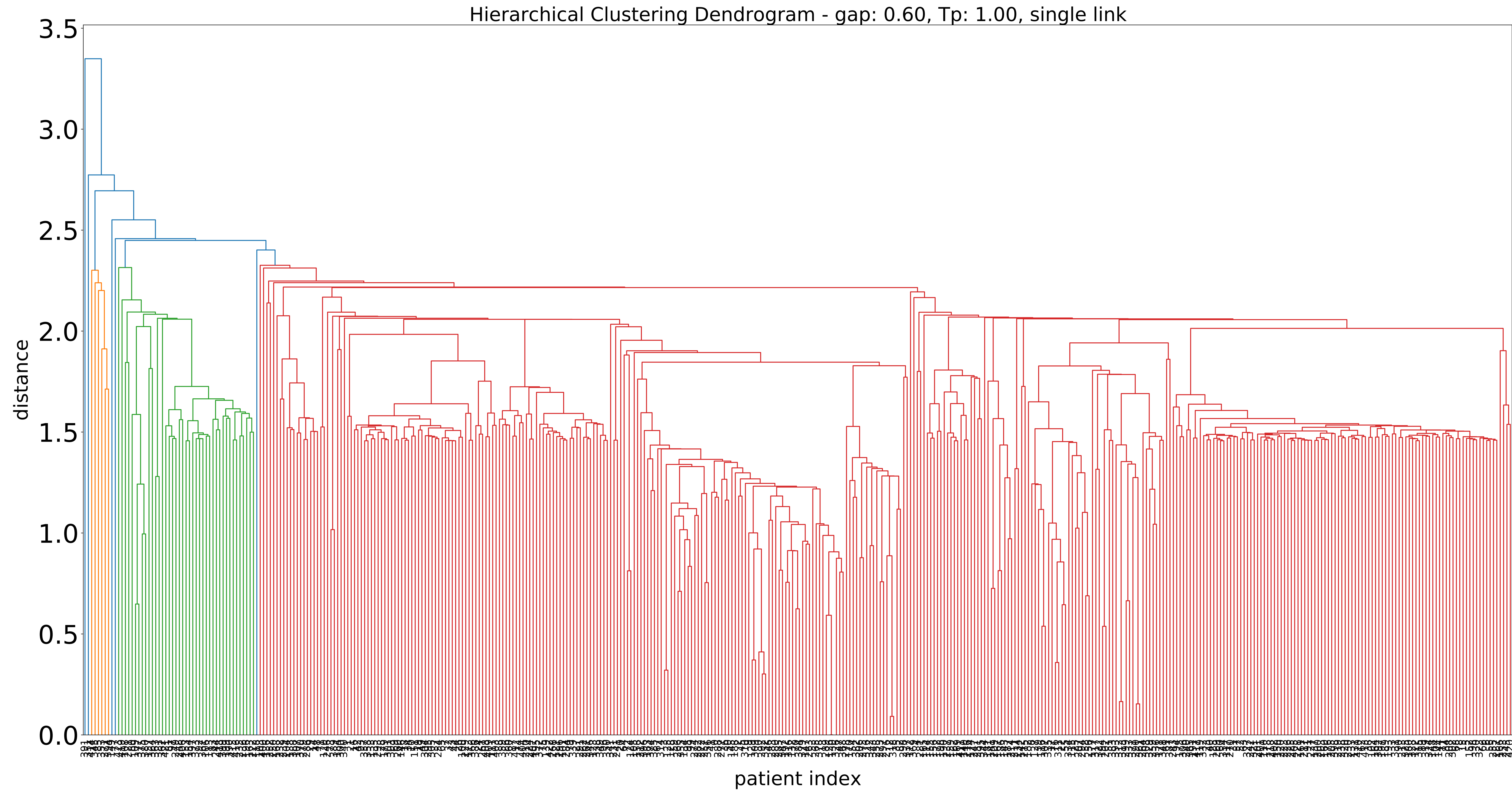
Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.50, Tp: 1.00, single link



Standard deviation of Huberts index versus number of clusters  
gap: 0.50, Tp: 1.00, single link





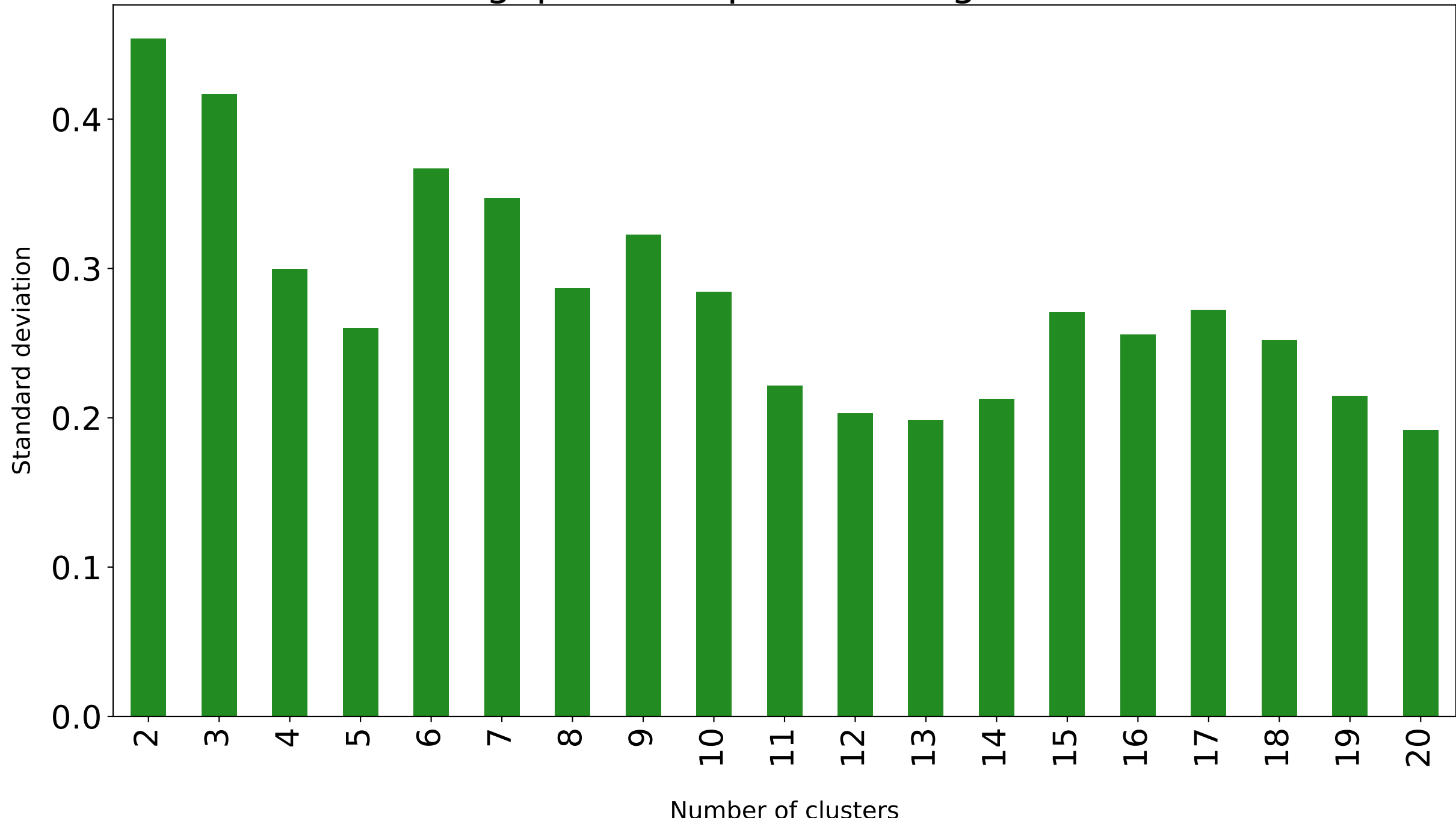


Cophenetic Correlation Coefficient: 0.6031213627397598

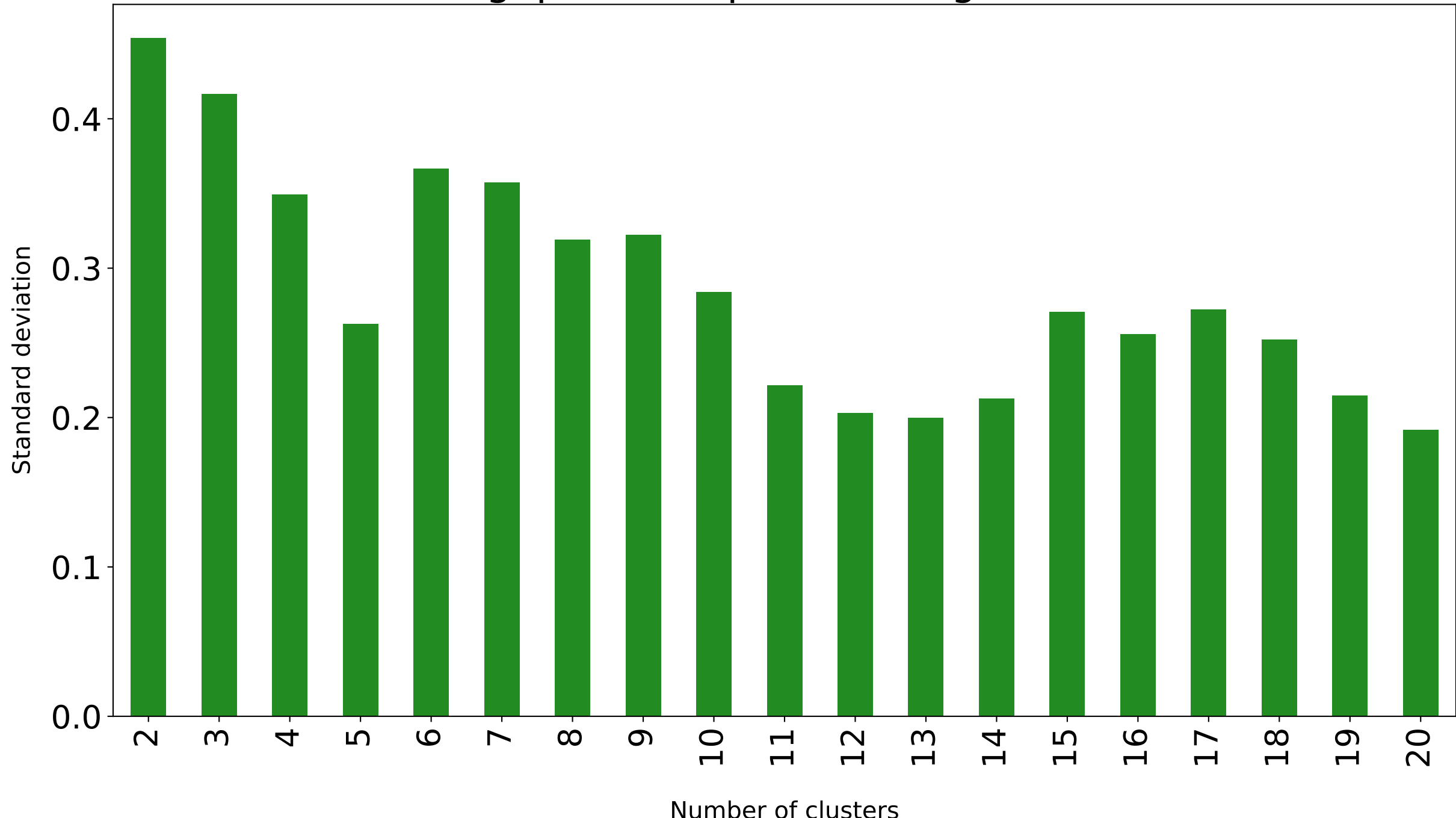
Average values of 20 clustering indices  
gap: 0.60, Tp: 1.00, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2.0	1.0	0.99299	0.98641	0.71194	0.00363	0.71192	0.99277	0.02937	0.9932	0.00448	0.97556	0.97556	2.0	0.53193	0.41106
3.0	1.0	0.97149	0.94504	0.32669	0.01466	0.42896	0.97061	0.12008	0.97238	0.00123	0.90251	0.90207	1.99761	0.68286	0.34058
4.0	1.0	0.9487	0.90372	0.43949	0.02643	0.52373	0.94698	0.19892	0.95044	0.00051	0.83947	0.83628	1.99378	0.62232	0.33093
5.0	1.0	0.93147	0.8712	0.34868	0.0359	0.50397	0.92831	0.25747	0.93467	0.00037	0.79041	0.78402	1.9924	0.69541	0.31327
6.0	1.0	0.90932	0.83147	0.26532	0.04783	0.44577	0.90407	0.33548	0.91471	0.00026	0.7341	0.72492	1.99125	0.74441	0.30182
7.0	1.0	0.89931	0.82406	0.53858	0.05215	0.57139	0.89673	0.34155	0.90196	0.00013	0.75063	0.72393	1.9667	0.69772	0.30763
8.0	1.0	0.90515	0.83258	0.57393	0.05014	0.6482	0.9012	0.31838	0.90927	0.00014	0.77094	0.73776	1.96457	0.73394	0.31829
9.0	1.0	0.90642	0.83341	0.5978	0.05059	0.70673	0.90067	0.30881	0.91245	0.00015	0.78154	0.74089	1.96415	0.752	0.30825
10.0	0.99999	0.90454	0.82851	0.59905	0.05302	0.73824	0.89687	0.31145	0.91268	0.00015	0.78151	0.73441	1.96434	0.74385	0.30676
11.0	0.99998	0.89507	0.81286	0.58544	0.05942	0.73398	0.88536	0.32953	0.90544	0.00015	0.76781	0.71584	1.96304	0.76345	0.30645
12.0	0.99995	0.87894	0.78618	0.54691	0.07047	0.71059	0.86622	0.36471	0.89264	0.00014	0.74041	0.68269	1.96306	0.75627	0.30501
13.0	0.99999	0.86919	0.77096	0.53802	0.07714	0.70081	0.85469	0.38415	0.88486	0.00014	0.7278	0.66564	1.96082	0.73083	0.29791
14.0	0.99999	0.84572	0.73285	0.49355	0.09374	0.66763	0.82697	0.43435	0.86602	0.00013	0.69066	0.62028	1.95971	0.74848	0.2975
15.0	0.99998	0.8002	0.65921	0.39985	0.12365	0.59679	0.77343	0.53912	0.82936	0.00012	0.61628	0.53206	1.95973	0.76713	0.29743
16.0	0.99988	0.74964	0.57988	0.34714	0.15806	0.53881	0.71612	0.60402	0.78596	0.0001	0.55755	0.43939	1.95219	0.72262	0.29462
17.0	1.00004	0.8785	0.79623	0.81126	0.07208	0.79746	0.87115	0.31529	0.88611	0.00014	0.8263	0.70319	1.81518	0.6871	0.2944
18.0	1.00002	0.90375	0.83221	0.81724	0.05447	0.84608	0.89834	0.26665	0.90931	0.00015	0.86708	0.74205	1.8152	0.70544	0.29246
19.0	1.00002	0.92028	0.85601	0.82338	0.04382	0.87806	0.91595	0.23623	0.92472	0.00016	0.89401	0.76902	1.81353	0.72091	0.29157
20.0	1.0	0.93115	0.87165	0.82966	0.03649	0.89978	0.92768	0.21453	0.93467	0.00016	0.91291	0.78682	1.81107	0.70218	0.29138

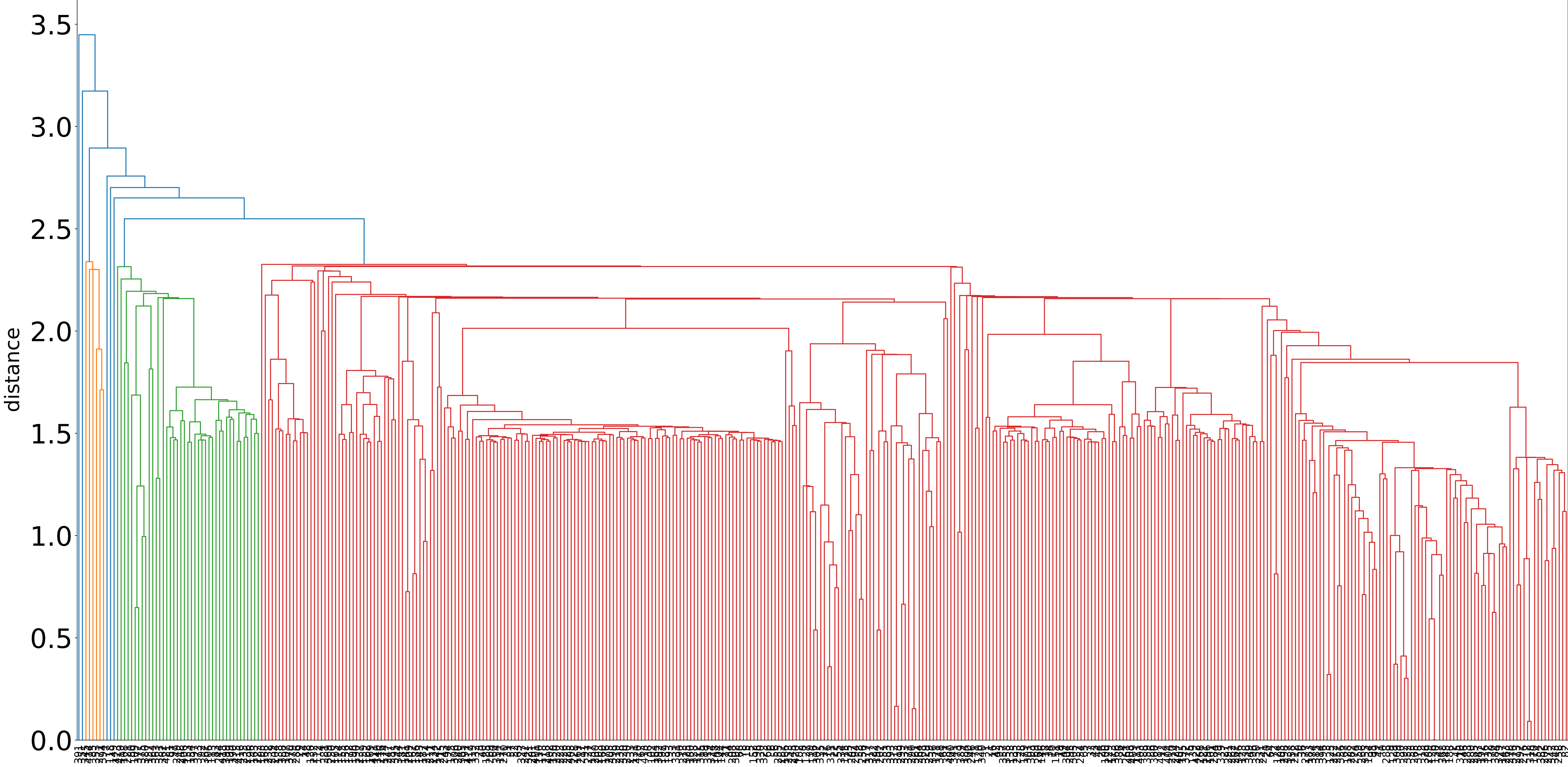
Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.60, Tp: 1.00, single link



Standard deviation of Huberts index versus number of clusters  
gap: 0.60, Tp: 1.00, single link



Hierarchical Clustering Dendrogram - gap: 0.70, Tp: 1.00, single link



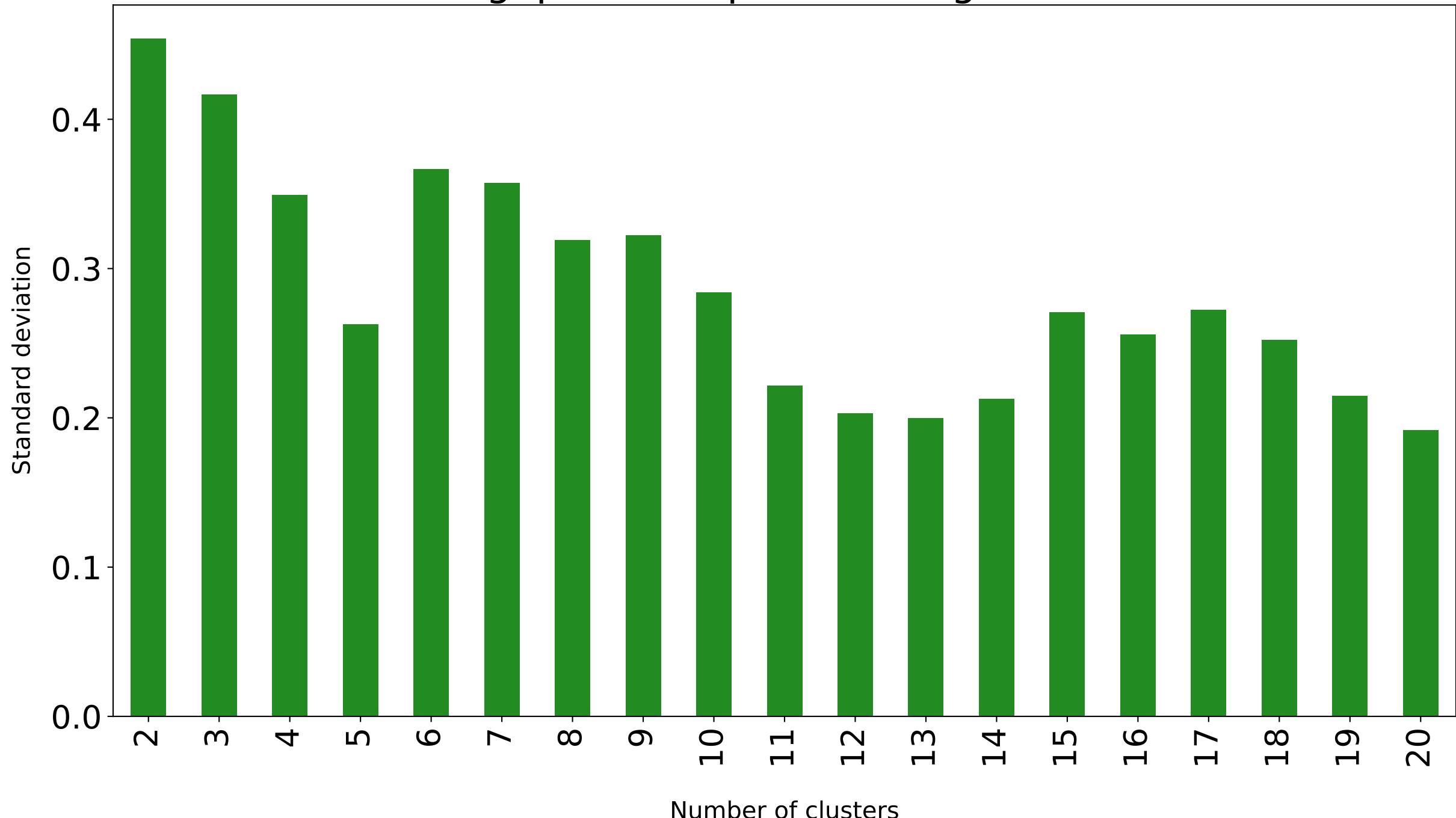
patient index

Cophenetic Correlation Coefficient: 0.5987392635821407

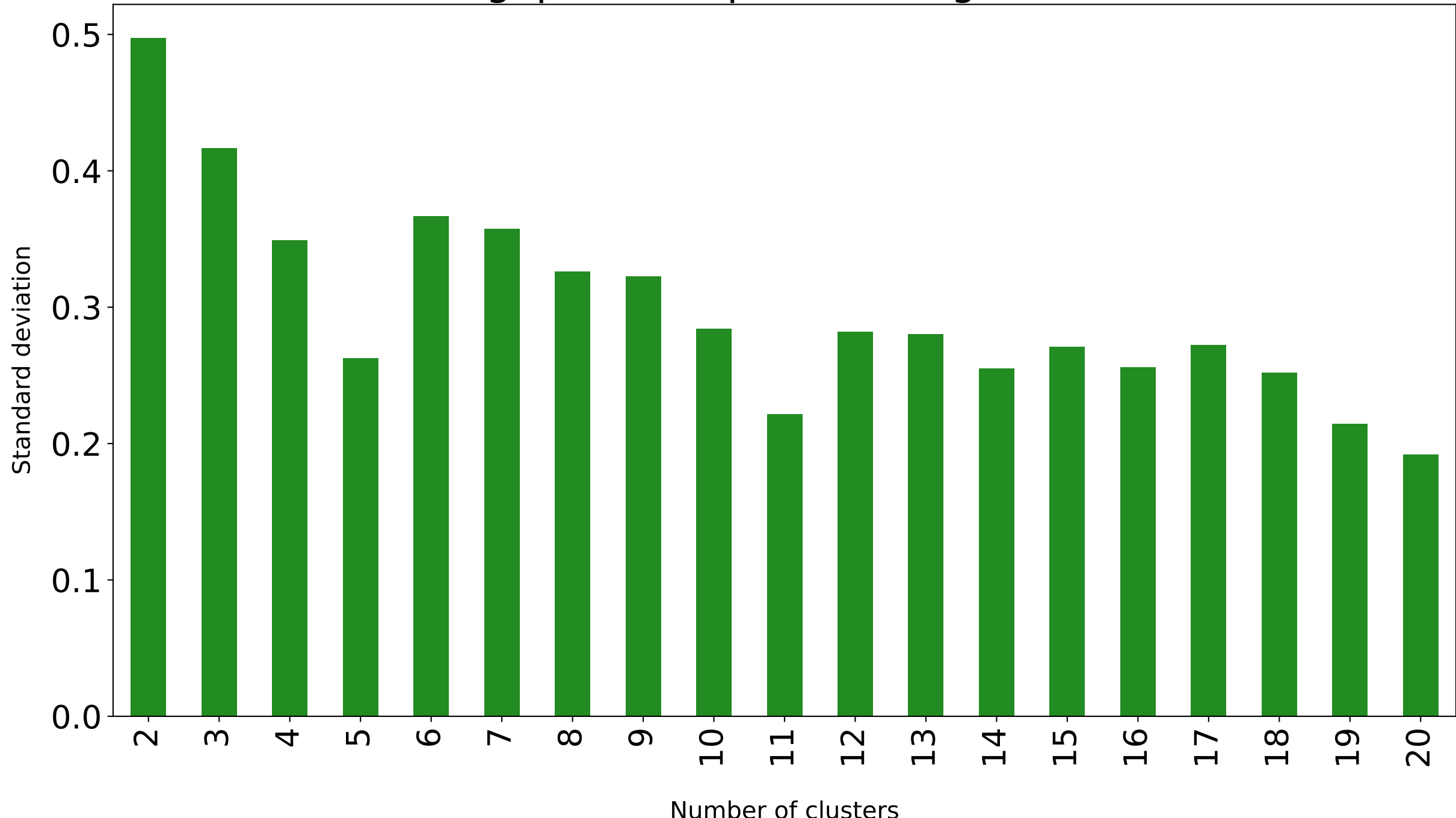
Average values of 20 clustering indices  
gap: 0.70, Tp: 1.00, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2.0	1.0	0.9965	0.99305	0.5674	0.00175	0.56729	0.99648	0.02056	0.99651	0.00357	0.98643	0.98643	2.0	0.5254	0.39429
3.0	1.0	0.99128	0.98283	0.60268	0.00439	0.68953	0.99116	0.04369	0.9914	0.00216	0.96759	0.96744	1.99715	0.67998	0.36296
4.0	1.0	0.98537	0.97172	0.73922	0.00762	0.78802	0.98507	0.06578	0.98568	0.00083	0.94981	0.94861	1.99358	0.61803	0.3311
5.0	1.0	0.96287	0.92908	0.54216	0.01894	0.66658	0.96146	0.14957	0.96429	0.00054	0.88067	0.87659	1.99234	0.69065	0.31542
6.0	1.0	0.93756	0.88243	0.3886	0.03199	0.548	0.93459	0.24232	0.94058	0.00037	0.80894	0.80194	1.98997	0.7406	0.3358
7.0	1.0	0.91756	0.84588	0.31147	0.04288	0.49734	0.91294	0.30917	0.92228	0.00027	0.75586	0.74596	1.98845	0.77745	0.32949
8.0	1.0	0.89854	0.82015	0.54087	0.05188	0.56305	0.89573	0.34523	0.90144	0.00013	0.74294	0.71379	1.96551	0.73148	0.31681
9.0	1.0	0.89159	0.80795	0.51988	0.05864	0.60979	0.88626	0.35718	0.8972	0.00013	0.73922	0.70023	1.96553	0.73131	0.29074
10.0	0.99999	0.87203	0.77535	0.49401	0.07333	0.63358	0.86184	0.39913	0.88287	0.00013	0.71515	0.6625	1.96519	0.7484	0.28909
11.0	0.99998	0.85794	0.75477	0.55899	0.08295	0.66554	0.84625	0.40559	0.87036	0.00012	0.71351	0.64022	1.95646	0.7101	0.28812
12.0	1.0	0.78304	0.65166	0.77066	0.13807	0.60783	0.76675	0.5305	0.8001	0.00011	0.66133	0.5309	1.82275	0.66419	0.28852
13.0	0.99993	0.82716	0.71955	0.78638	0.10816	0.69382	0.81557	0.43987	0.83924	0.00012	0.73756	0.61197	1.82299	0.66555	0.28842
14.0	1.0	0.86456	0.7762	0.80553	0.08251	0.76695	0.85651	0.35594	0.87292	0.00013	0.80086	0.67922	1.82118	0.68635	0.28812
15.0	1.00003	0.89896	0.82601	0.8175	0.05947	0.83408	0.89348	0.28135	0.9046	0.00015	0.8574	0.73575	1.82121	0.70361	0.28677
16.0	1.00001	0.92156	0.85797	0.82713	0.04406	0.87848	0.91756	0.2351	0.92565	0.00015	0.89383	0.77084	1.82123	0.72463	0.2867
17.0	1.0	0.93263	0.87426	0.83341	0.03685	0.89992	0.9293	0.2137	0.93601	0.00016	0.91189	0.7901	1.8196	0.73858	0.28586
18.0	1.0	0.9376	0.88264	0.84096	0.03384	0.90876	0.93474	0.19972	0.94049	0.00016	0.92018	0.80176	1.81473	0.71571	0.28575
19.0	1.0	0.9384	0.88391	0.84218	0.03381	0.91039	0.93552	0.19844	0.94131	0.00016	0.92165	0.80364	1.81311	0.7307	0.28235
20.0	1.0	0.93701	0.88079	0.83517	0.03451	0.90904	0.934	0.20433	0.94006	0.00016	0.92042	0.79784	1.81323	0.74437	0.28092

Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.70, Tp: 1.00, single link

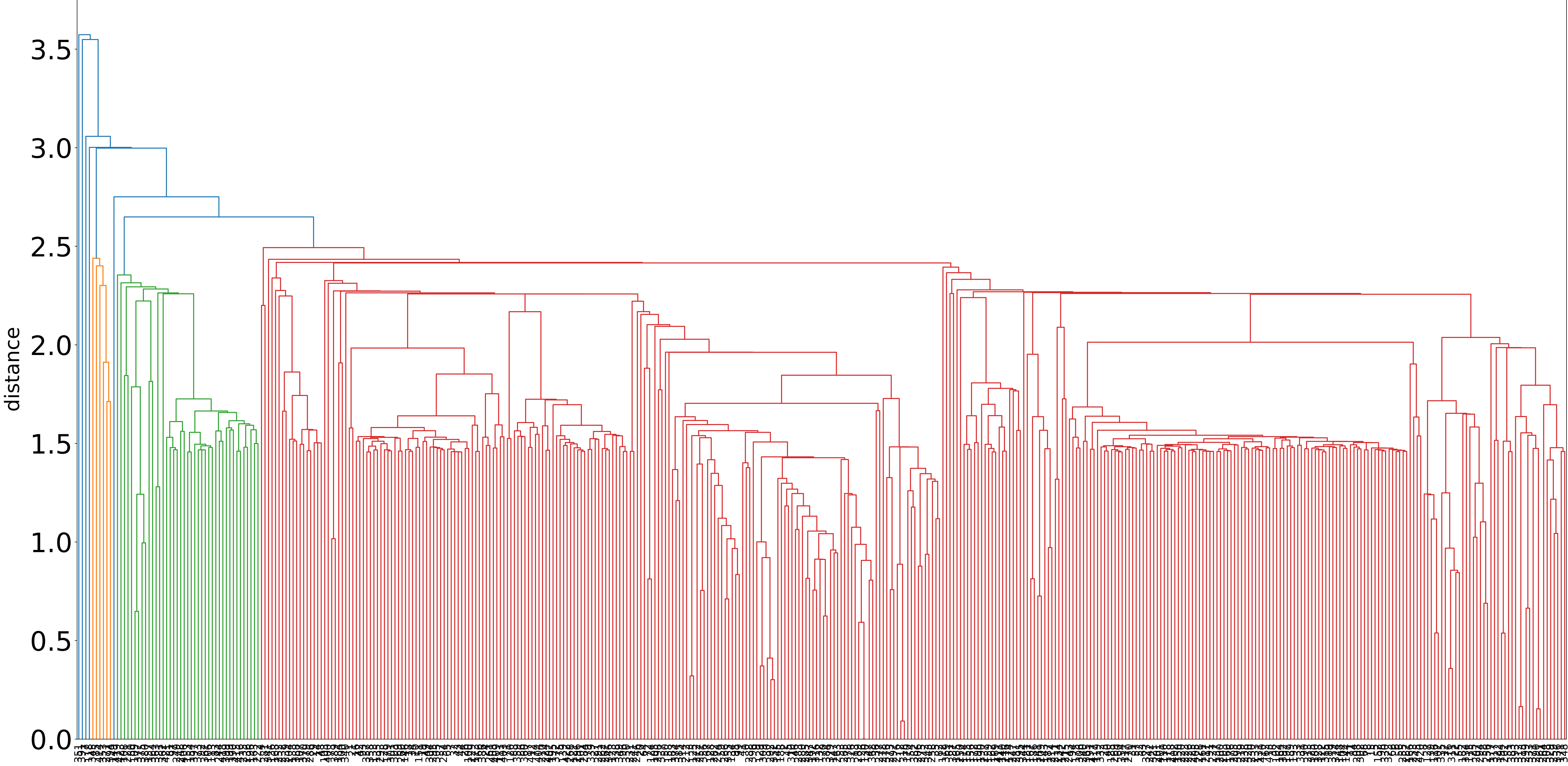


Standard deviation of Huberts index versus number of clusters  
gap: 0.70, Tp: 1.00, single link





Hierarchical Clustering Dendrogram - gap: 0.80, Tp: 1.00, single link



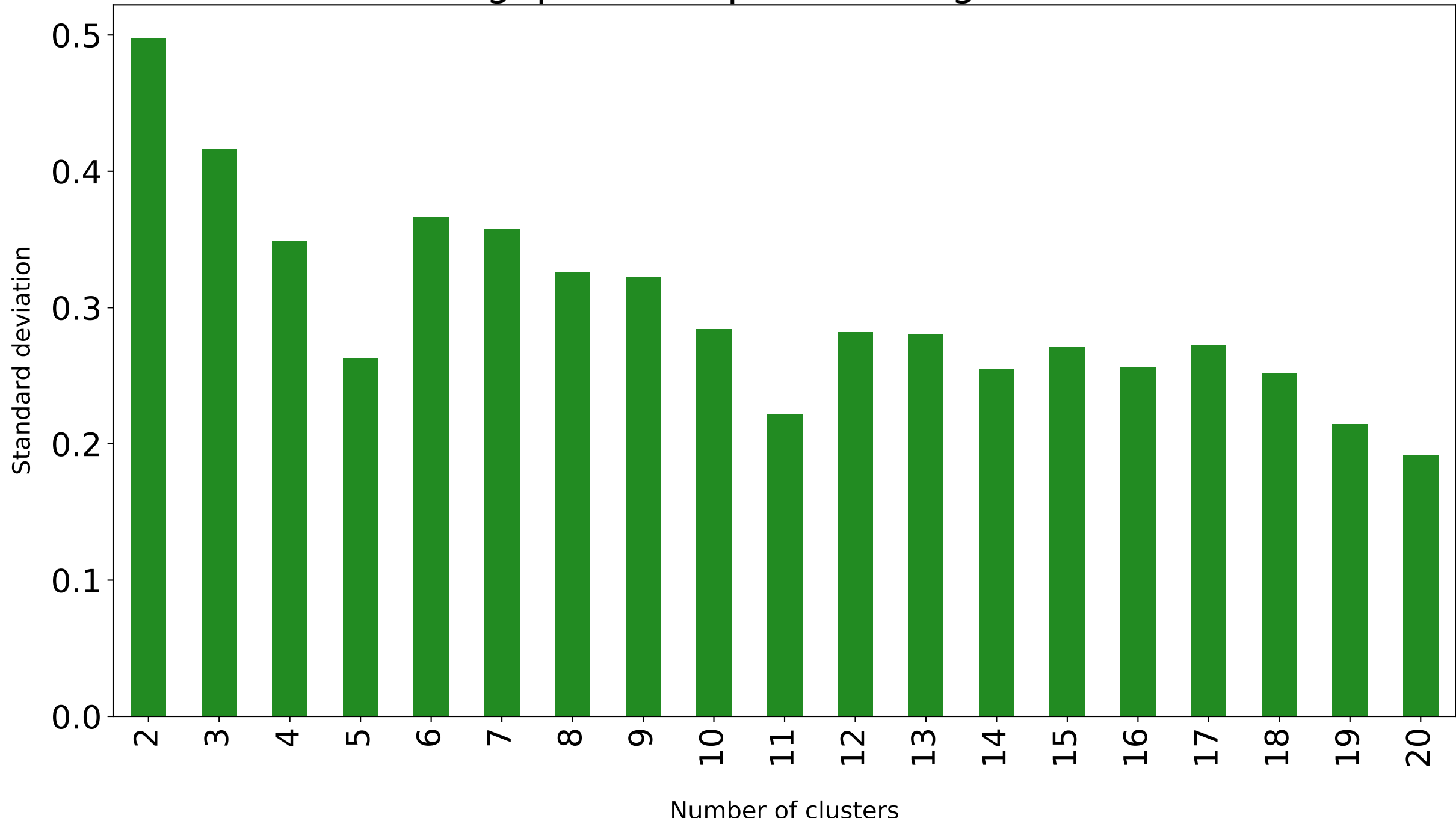
patient index

Cophenetic Correlation Coefficient: 0.602258330776538

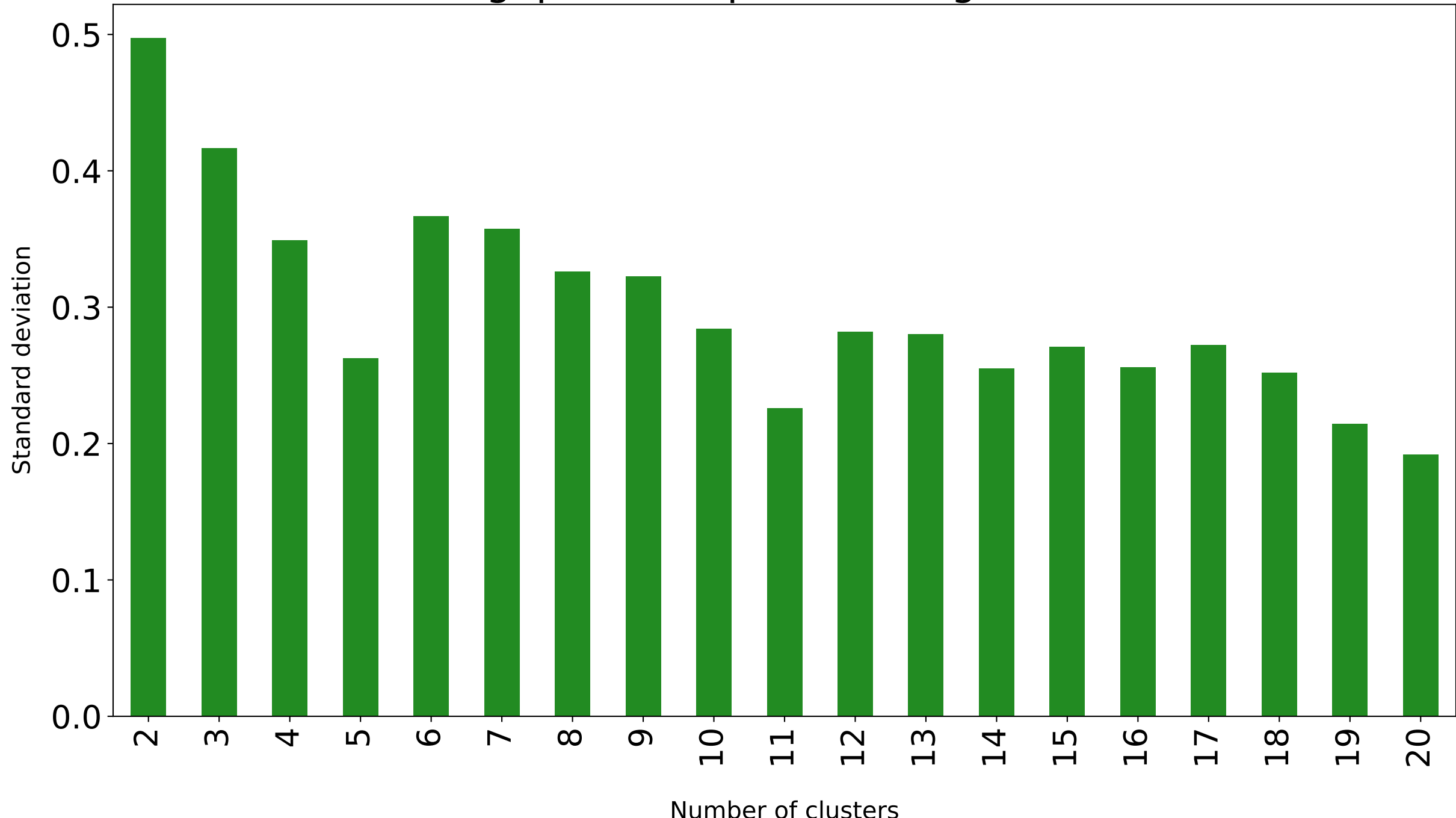
Average values of 20 clustering indices  
gap: 0.80, Tp: 1.00, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2.0	1.0	0.99871	0.99743	0.74399	0.00065	0.74399	0.9987	0.00765	0.99872	0.00469	0.99499	0.99499	2.0	0.69838	0.38246
3.0	1.0	0.99376	0.98768	0.67092	0.00314	0.7585	0.99367	0.03115	0.99384	0.00252	0.97665	0.97653	1.99977	0.67696	0.37983
4.0	1.0	0.98322	0.96702	0.42446	0.00845	0.56107	0.983	0.08454	0.98343	0.00115	0.93829	0.93769	1.99848	0.75384	0.32727
5.0	1.0	0.97098	0.94355	0.32268	0.01462	0.48488	0.9704	0.13849	0.97156	0.00068	0.89764	0.89631	1.9958	0.80135	0.34331
6.0	1.0	0.95768	0.91905	0.47475	0.02145	0.59783	0.95634	0.17269	0.95902	0.00044	0.86255	0.8578	1.99239	0.73732	0.35081
7.0	1.0	0.93919	0.88447	0.3906	0.03111	0.564	0.93649	0.23611	0.94191	0.00034	0.81076	0.80279	1.99076	0.77469	0.32192
8.0	1.0	0.89959	0.82094	0.54888	0.05124	0.53026	0.8972	0.34596	0.90204	0.00013	0.73822	0.71243	1.96928	0.72817	0.30997
9.0	1.0	0.89755	0.8185	0.56851	0.05444	0.63241	0.89278	0.33777	0.90258	0.00014	0.75399	0.71553	1.96538	0.69266	0.29176
10.0	0.99999	0.88013	0.78957	0.52853	0.06775	0.65484	0.87087	0.3698	0.89	0.00013	0.73338	0.68344	1.9654	0.68995	0.28543
11.0	0.99999	0.84798	0.73636	0.47916	0.09048	0.6408	0.83176	0.43549	0.86537	0.00013	0.6859	0.62033	1.96314	0.71697	0.28481
12.0	0.99995	0.81173	0.681	0.47646	0.1165	0.61593	0.79153	0.47729	0.83326	0.00011	0.65	0.55614	1.95502	0.68723	0.28296
13.0	1.00001	0.83771	0.73367	0.82353	0.10121	0.71562	0.82597	0.39289	0.84997	0.00012	0.75121	0.62922	1.82172	0.65267	0.28332
14.0	1.00002	0.88757	0.8097	0.83849	0.06755	0.80967	0.88036	0.28942	0.89505	0.00014	0.83366	0.72045	1.82174	0.67329	0.28161
15.0	1.00001	0.92455	0.8669	0.85628	0.04327	0.87883	0.92062	0.21305	0.92858	0.00015	0.89427	0.79075	1.82012	0.69238	0.28083
16.0	1.0	0.94085	0.89121	0.86393	0.03239	0.90929	0.93825	0.1829	0.94349	0.00016	0.92045	0.81882	1.81854	0.7109	0.27752
17.0	1.0	0.94554	0.89743	0.86129	0.02896	0.91898	0.9434	0.1787	0.9477	0.00016	0.92872	0.82418	1.81866	0.71849	0.27618
18.0	1.0	0.94546	0.89592	0.85418	0.02897	0.9202	0.94327	0.1857	0.94766	0.00016	0.92958	0.81969	1.81869	0.73175	0.27438
19.0	1.0	0.94048	0.88694	0.8465	0.03168	0.91394	0.93816	0.20296	0.94283	0.00016	0.92499	0.80552	1.81573	0.70834	0.27356
20.0	1.0	0.93445	0.87616	0.83414	0.03519	0.9059	0.93167	0.22011	0.93726	0.00016	0.91856	0.78951	1.8153	0.71496	0.27282

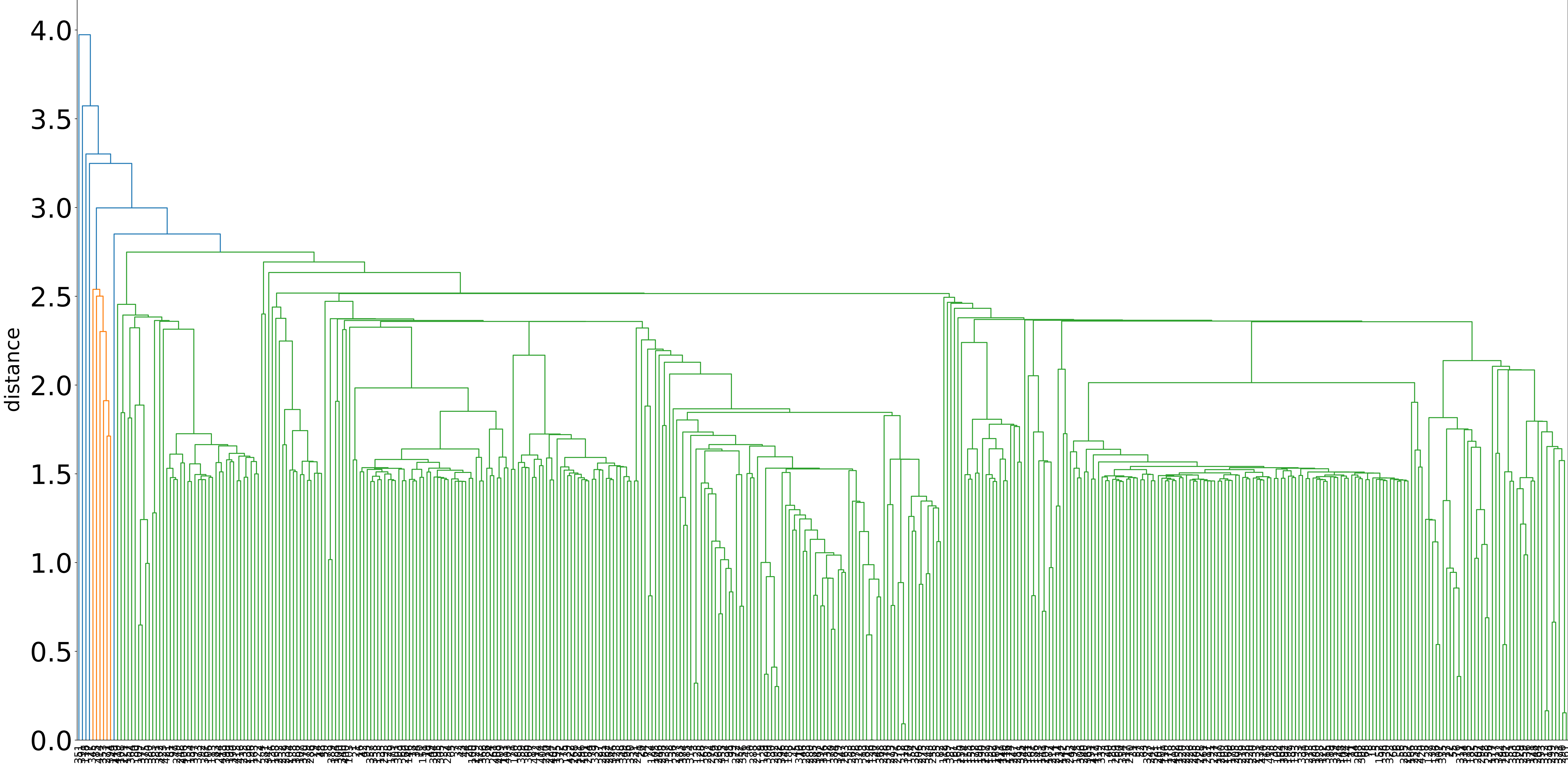
Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.80, Tp: 1.00, single link



Standard deviation of Huberts index versus number of clusters  
gap: 0.80, Tp: 1.00, single link



Hierarchical Clustering Dendrogram - gap: 0.90, Tp: 1.00, single link



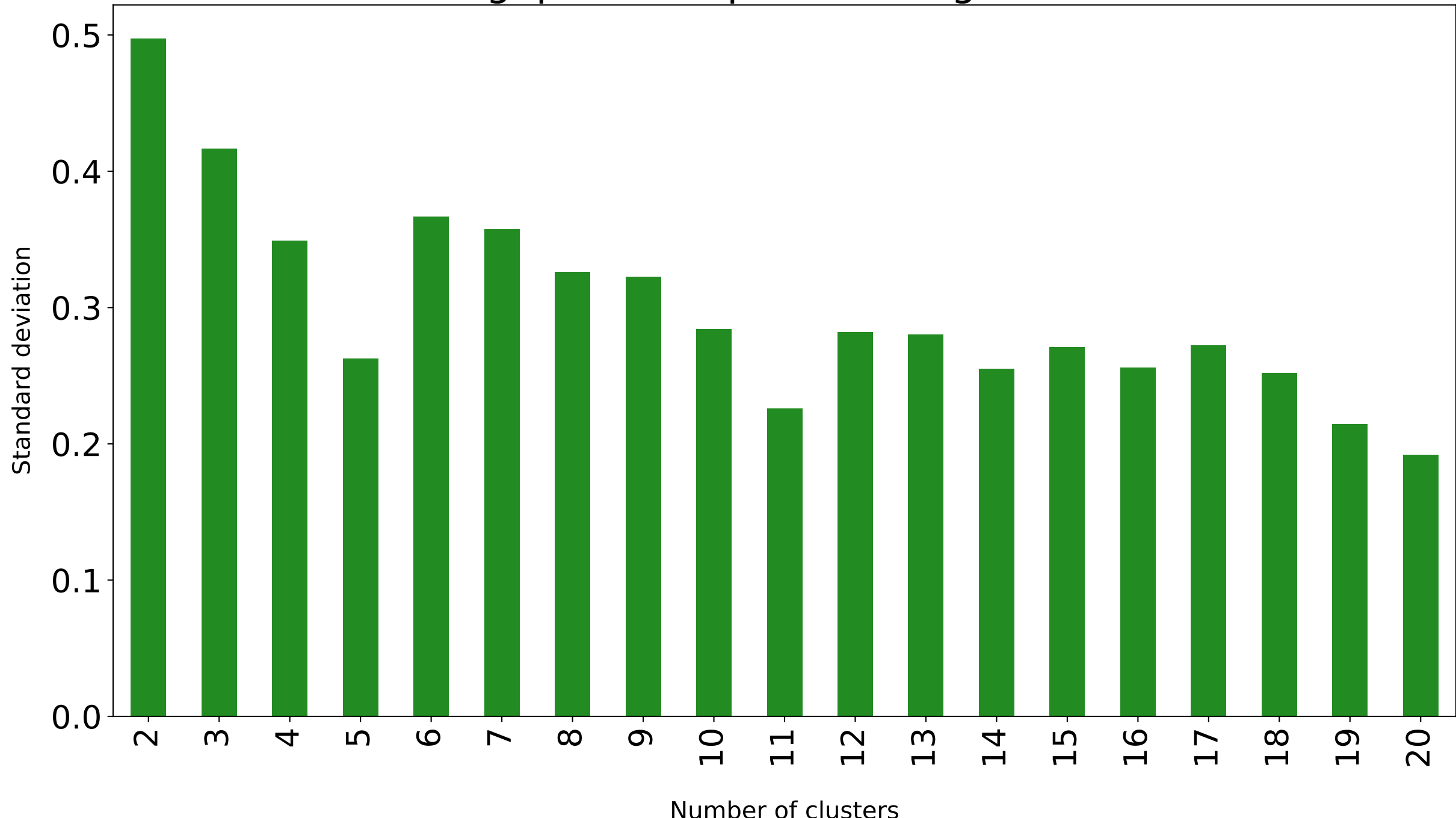
patient index

Cophenetic Correlation Coefficient: 0.613374498358257

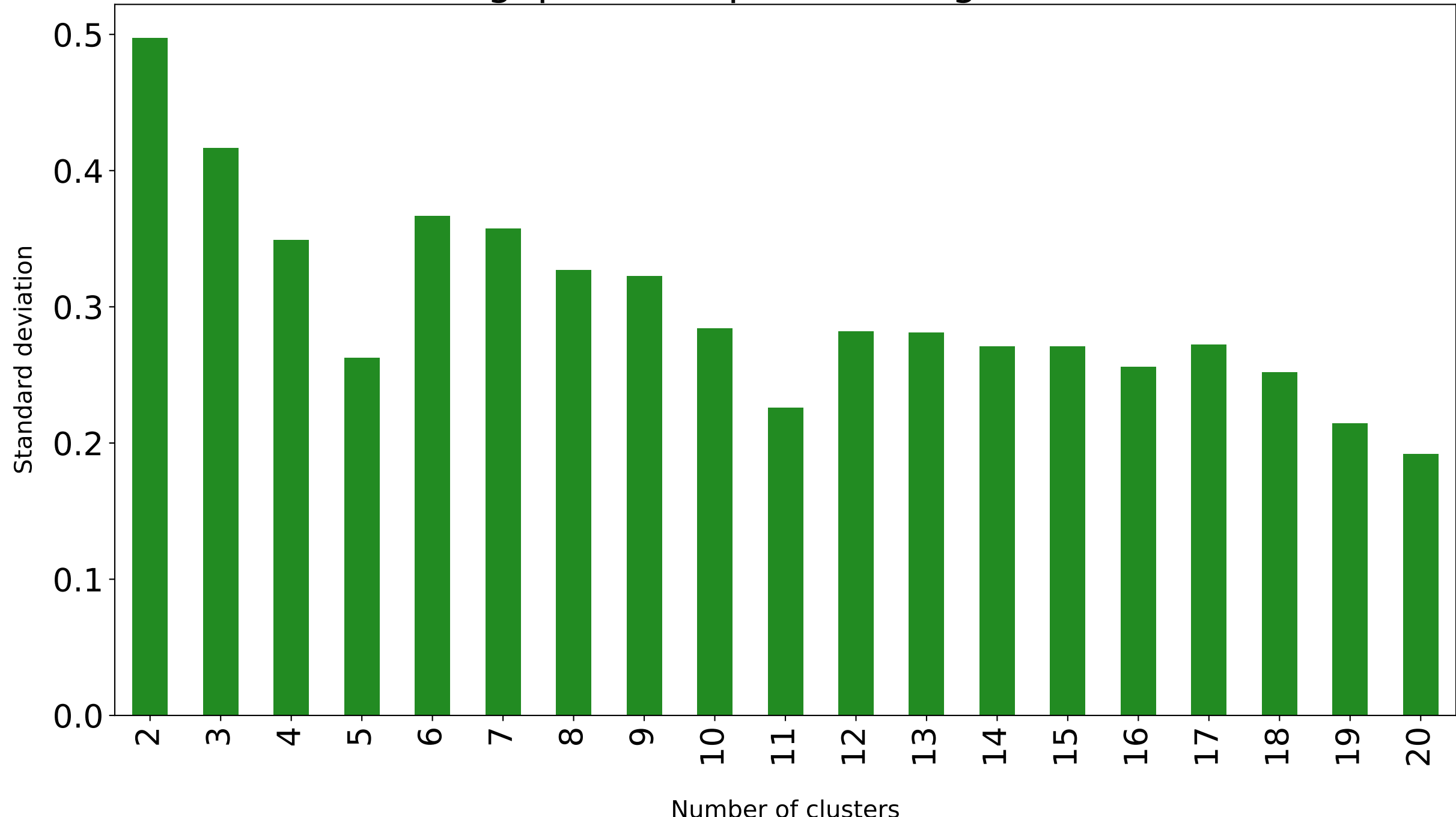
Average values of 20 clustering indices  
gap: 0.90, Tp: 1.00, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2.0	1.0	0.99898	0.99797	0.756	0.00051	0.756	0.99898	0.0064	0.99898	0.00476	0.99599	0.99599	2.0	0.71297	0.39961
3.0	1.0	0.99682	0.99369	0.74168	0.00159	0.81919	0.9968	0.01778	0.99684	0.00279	0.98778	0.98772	1.99982	0.67384	0.35931
4.0	1.0	0.98893	0.9782	0.56374	0.00556	0.68715	0.9888	0.05657	0.98906	0.00148	0.95897	0.95856	1.99683	0.75338	0.36111
5.0	1.0	0.97933	0.95959	0.44899	0.01045	0.60543	0.97895	0.10016	0.97971	0.00091	0.926	0.92496	1.99545	0.79985	0.35528
6.0	1.0	0.97211	0.94638	0.59845	0.01411	0.67915	0.97144	0.1218	0.97279	0.00054	0.90685	0.90381	1.99228	0.73491	0.33142
7.0	1.0	0.95635	0.91657	0.49953	0.02229	0.64015	0.95471	0.17417	0.95801	0.00041	0.86058	0.85476	1.99057	0.77267	0.31518
8.0	1.0	0.91319	0.84305	0.6271	0.0445	0.55009	0.9112	0.30958	0.9152	0.00014	0.76292	0.74365	1.9704	0.72563	0.30389
9.0	1.0	0.91568	0.84825	0.63081	0.04379	0.63595	0.91311	0.29997	0.91833	0.00014	0.78225	0.75466	1.96622	0.68993	0.29774
10.0	1.0	0.91075	0.84073	0.61774	0.04813	0.69569	0.90607	0.30279	0.91567	0.00015	0.78669	0.74938	1.96371	0.71965	0.29118
11.0	0.99999	0.88731	0.80053	0.57317	0.06643	0.7124	0.8767	0.34204	0.8986	0.00015	0.75426	0.70115	1.96373	0.71518	0.28071
12.0	0.99997	0.842	0.72931	0.54696	0.0973	0.65829	0.82696	0.41647	0.85797	0.00012	0.69485	0.61263	1.95638	0.68772	0.27838
13.0	0.99998	0.81277	0.6957	0.82417	0.11899	0.66505	0.79761	0.45372	0.82868	0.00012	0.70512	0.58678	1.82493	0.65272	0.27871
14.0	0.99997	0.84681	0.74845	0.83328	0.09602	0.73017	0.83538	0.37921	0.85876	0.00013	0.7633	0.65017	1.82496	0.67488	0.27709
15.0	1.00008	0.89825	0.8278	0.85268	0.06126	0.82731	0.89164	0.27428	0.90512	0.00014	0.84912	0.74661	1.82335	0.69411	0.27635
16.0	1.00001	0.92666	0.87097	0.8665	0.04185	0.88117	0.92277	0.21402	0.93069	0.00015	0.89619	0.79773	1.81993	0.71271	0.27806
17.0	1.0	0.94518	0.89885	0.87645	0.02989	0.9158	0.94273	0.17823	0.94769	0.00016	0.92584	0.83088	1.81836	0.72893	0.2793
18.0	1.0	0.94959	0.90528	0.87735	0.02746	0.9245	0.94754	0.16894	0.95167	0.00016	0.93351	0.83805	1.81569	0.74337	0.27867
19.0	1.0	0.95044	0.90544	0.86847	0.02679	0.92746	0.94859	0.1732	0.95231	0.00016	0.9363	0.83544	1.81579	0.74916	0.278
20.0	1.0	0.94732	0.89942	0.85932	0.02845	0.9232	0.94528	0.18484	0.94937	0.00016	0.93256	0.82524	1.81582	0.75924	0.27627

Standard deviation of Adjusted Rand versus number of clusters  
gap: 0.90, Tp: 1.00, single link

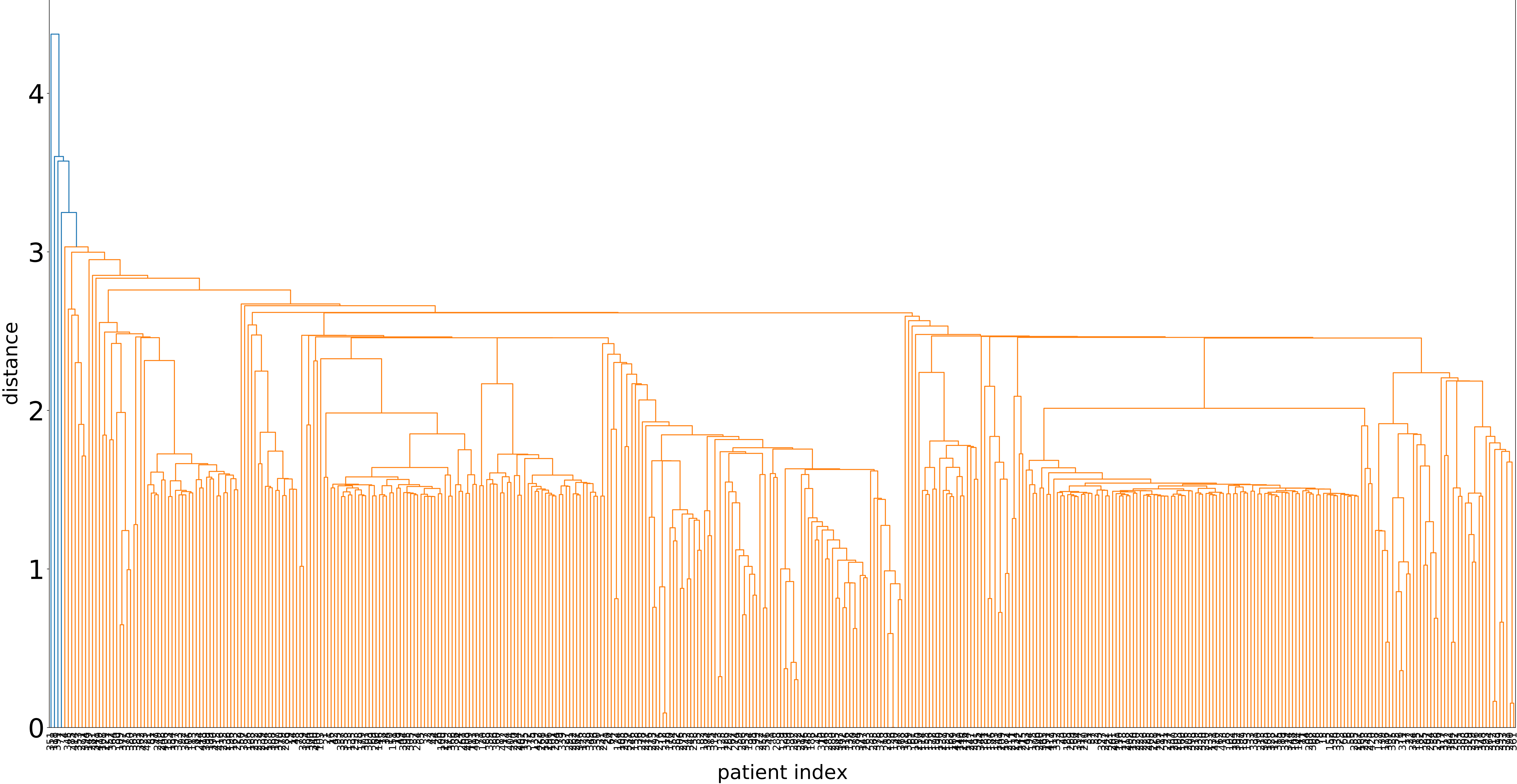


Standard deviation of Huberts index versus number of clusters  
gap: 0.90, Tp: 1.00, single link





Hierarchical Clustering Dendrogram - gap: 1.00, Tp: 1.00, single link

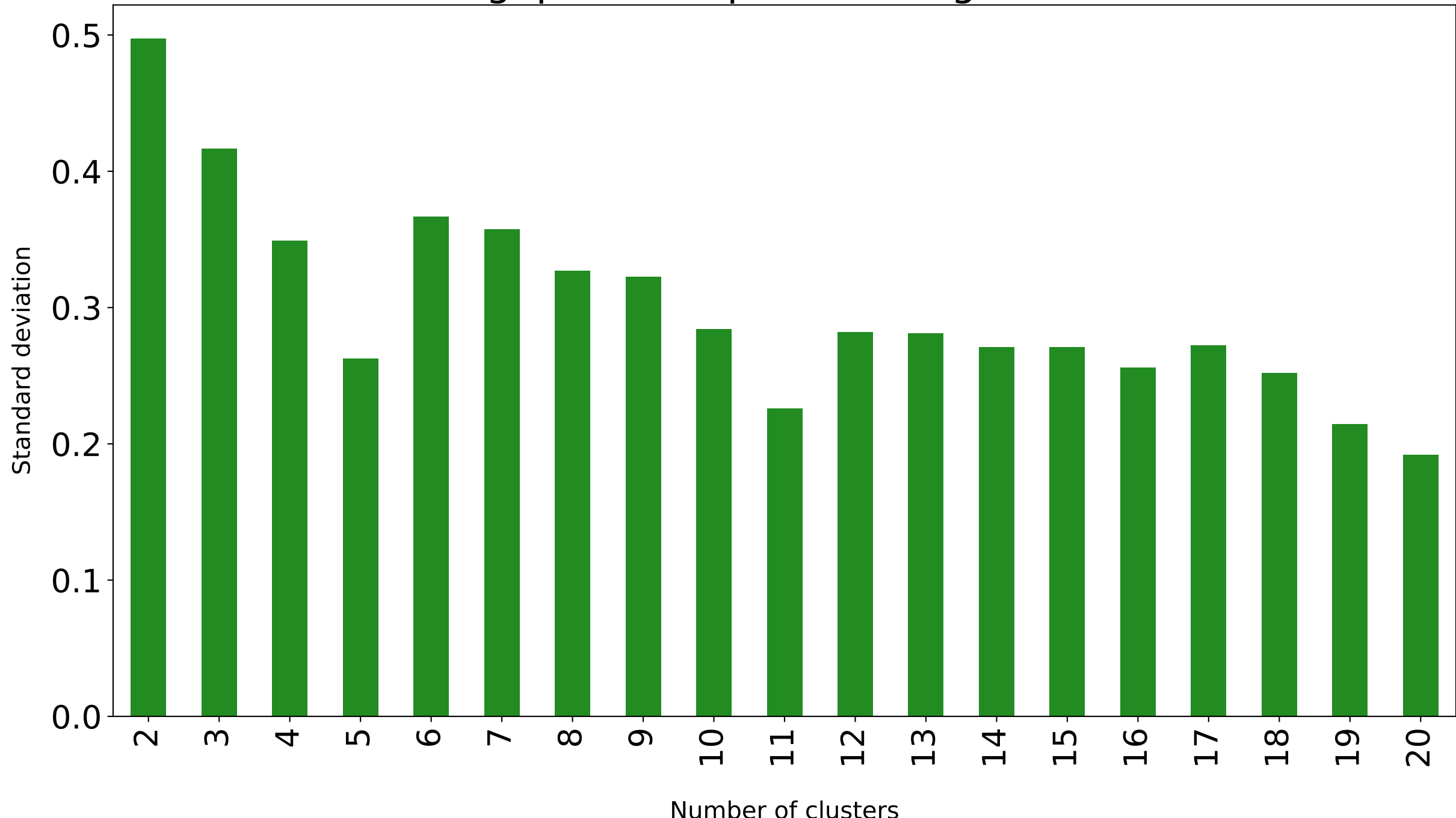


Cophenetic Correlation Coefficient: 0.6324633063912278

Average values of 20 clustering indices  
gap: 1.00, Tp: 1.00, single link

k	AR	FM	J	AW	VD	H	F	VI	K	Phi	RT	SS	CVNN	S	Dunn
2.0	1.0	0.99901	0.99802	0.716	0.0005	0.716	0.999	0.00653	0.99901	0.00451	0.99607	0.99607	2.0	0.72573	0.41481
3.0	1.0	0.99738	0.99479	0.7162	0.00131	0.80056	0.99737	0.01577	0.9974	0.00287	0.98985	0.98981	1.99671	0.79472	0.37732
4.0	1.0	0.99205	0.98429	0.64054	0.00399	0.7532	0.99195	0.04073	0.99215	0.00168	0.97029	0.97	1.99657	0.75142	0.37427
5.0	1.0	0.98324	0.96709	0.48392	0.00846	0.62924	0.98302	0.08524	0.98346	0.001	0.9388	0.93792	1.99514	0.79818	0.3403
6.0	1.0	0.97565	0.95234	0.3975	0.01223	0.56945	0.97528	0.12148	0.97603	0.00068	0.9125	0.91092	1.99334	0.82942	0.3176
7.0	1.0	0.97569	0.95291	0.60691	0.01216	0.69634	0.97537	0.11623	0.97602	0.00051	0.91628	0.91321	1.9903	0.76125	0.31406
8.0	1.0	0.9721	0.94596	0.59966	0.01413	0.72714	0.97141	0.12621	0.97279	0.00046	0.90649	0.902	1.98849	0.79102	0.30915
9.0	1.0	0.9551	0.91482	0.53238	0.02307	0.67985	0.95303	0.18248	0.95721	0.00038	0.86112	0.85397	1.98633	0.81381	0.29876
10.0	1.0	0.93027	0.86932	0.43942	0.03587	0.60602	0.92622	0.26536	0.93438	0.0003	0.79556	0.78454	1.98384	0.83186	0.29688
11.0	1.0	0.90964	0.83547	0.64118	0.04806	0.62347	0.90596	0.31868	0.91345	0.00014	0.76506	0.73293	1.96413	0.79185	0.2891
12.0	1.0	0.90181	0.82194	0.60725	0.05435	0.66786	0.89592	0.33092	0.90797	0.00014	0.76075	0.71714	1.96061	0.80887	0.27988
13.0	0.99999	0.87312	0.77558	0.54525	0.07504	0.67274	0.86105	0.38441	0.88597	0.00014	0.7243	0.66508	1.9579	0.82321	0.27871
14.0	0.99998	0.84066	0.72283	0.47362	0.09635	0.64079	0.82226	0.4541	0.86044	0.00013	0.67467	0.60306	1.95792	0.82642	0.27648
15.0	0.99996	0.79233	0.64708	0.4366	0.13016	0.5943	0.76763	0.51717	0.81879	0.00011	0.62003	0.51429	1.95094	0.79827	0.27427
16.0	0.99995	0.85238	0.75678	0.82253	0.09103	0.74418	0.84206	0.36724	0.86314	0.00013	0.77734	0.65796	1.821	0.76164	0.28339
17.0	0.99993	0.89592	0.82262	0.83623	0.06134	0.82601	0.88965	0.27959	0.90243	0.00015	0.84876	0.73517	1.82103	0.77497	0.28181
18.0	1.0	0.92141	0.86152	0.84913	0.04463	0.87398	0.91739	0.22904	0.92555	0.00015	0.89047	0.78204	1.81943	0.78551	0.28109
19.0	1.00003	0.93953	0.88819	0.85788	0.03303	0.9081	0.93702	0.19587	0.94209	0.00016	0.91959	0.81232	1.81791	0.79625	0.27803
20.0	1.0	0.94381	0.89339	0.85428	0.03043	0.91702	0.94168	0.19353	0.94596	0.00016	0.92704	0.81585	1.81802	0.7995	0.27679

Standard deviation of Adjusted Rand versus number of clusters  
gap: 1.00, Tp: 1.00, single link



Standard deviation of Huberts index versus number of clusters  
gap: 1.00, Tp: 1.00, single link

