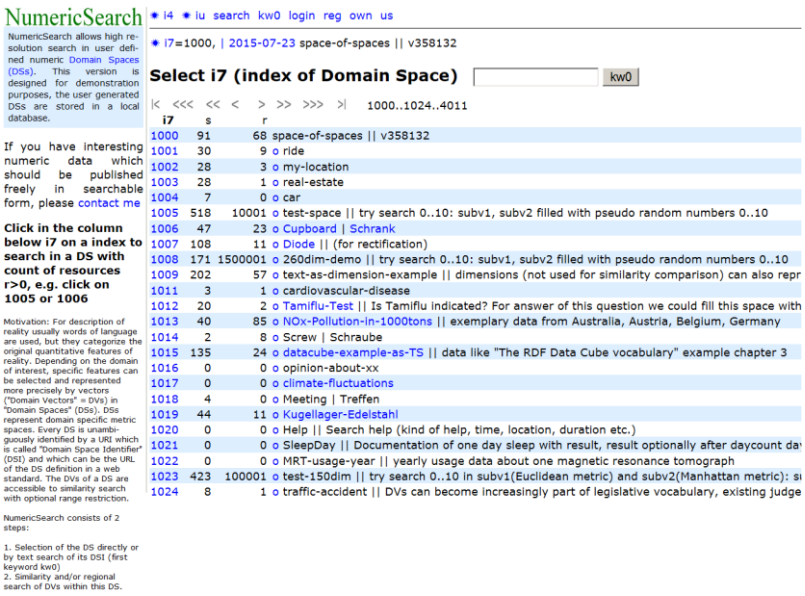
Search demo for numericsearch.com

The screen shots below show examples. Initially the table with Domain Spaces (DSs) is shown



NumericSearch

NumericSearch allows high resolution search in user defined numeric Domain Spaces (DSs). This version is designed for demonstration purposes, the user generated DSs are stored in a local database.

If you have interesting numeric data which should be published freely in searchable form, please contact me

Click in the column below i7 on a index to search in a DS with count of resources r>0, e.g. click on 1005 or 1006

Motivation: For description of reality usually words of language are used, but they categorize the original quantitative features of reality. Depending on the domain of interest, specific features can be selected and represented more precisely by vectors ("Domain Vectors" = DVs) in "Domain Spaces" (DSs). DSs represent domain specific metric spaces. Every DS is unambiguously identified by a URI which is called "Domain Space Identifier" (DSI) and which can be the URL of the DS definition in a web standard. The DVs of a DS are accessible to similarity search with optional range restriction.

NumericSearch consists of 2 steps:

1. Selection of the DS directly or by text search of its DSI (first keyword kw0)
2. Similarity and/or regional search of DVs within this DS.

i4 iu search kw0 login reg own us

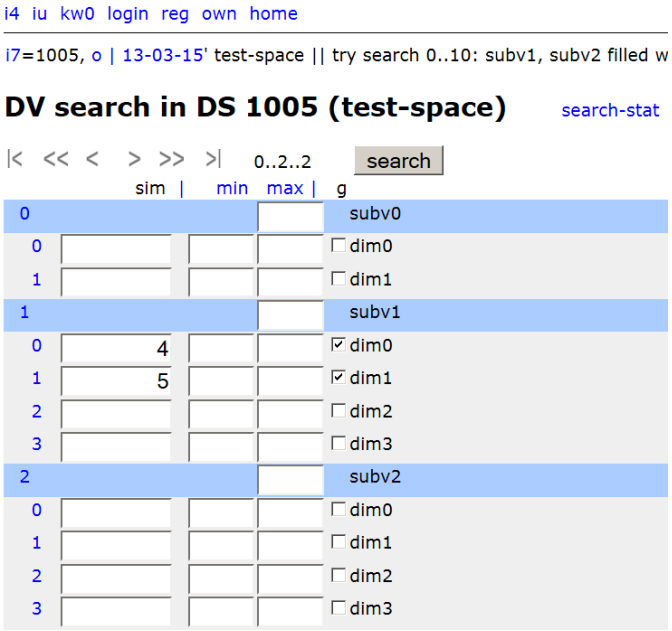
i7=1000, | 2015-07-23 space-of-spaces || v358132

Select i7 (index of Domain Space) kw0

|< <<< << < > >> >>> >| 1000..1024..4011

i7	s	r	
1000	91	68	space-of-spaces || v358132
1001	30	9	ride
1002	28	3	my-location
1003	28	1	real-estate
1004	7	0	car
1005	518	10001	test-space || try search 0..10: subv1, subv2 filled with pseudo random numbers 0..10
1006	47	23	Cupboard | Schrank
1007	108	11	Diode || (for rectification)
1008	171	1500001	260dim-demo || try search 0..10: subv1, subv2 filled with pseudo random numbers 0..10
1009	202	57	text-as-dimension-example || dimensions (not used for similarity comparison) can also repr
1011	3	1	cardiovascular-disease
1012	20	2	Tamiflu-Test || Is Tamiflu indicated? For answer of this question we could fill this space with
1013	40	85	NOx-Pollution-in-1000tons || exemplary data from Australia, Austria, Belgium, Germany
1014	2	8	Screw | Schraube
1015	135	24	datacube-example-as-TS || data like "The RDF Data Cube vocabulary" example chapter 3
1016	0	0	opinion-about-xx
1017	0	0	climate-fluctuations
1018	4	0	Meeting | Treffen
1019	44	11	Kugellager-Edelstahl
1020	0	0	Help || Search help (kind of help, time, location, duration etc.)
1021	0	0	SleepDay || Documentation of one day sleep with result, result optionally after daycount da
1022	0	0	MRT-usage-year || yearly usage data about one magnetic resonance tomograph
1023	423	100001	test-150dim || try search 0..10 in subv1(Euclidean metric) and subv2(Manhattan metric): s
1024	8	1	traffic-accident || DVs can become increasingly part of legislative vocabulary, existing judge

Click on the index i7 (e.g. 1005 for "test-space") to open the search window for this DS; Search of 4 on dim0 and 5 on dim1 of subvector 1 is shown in the following screen shot:



i4 iu kw0 login reg own home

i7=1005, o | 13-03-15' test-space || try search 0..10: subv1, subv2 filled w

DV search in DS 1005 (test-space) search-stat

|< << < > >> >| 0..2..2 search

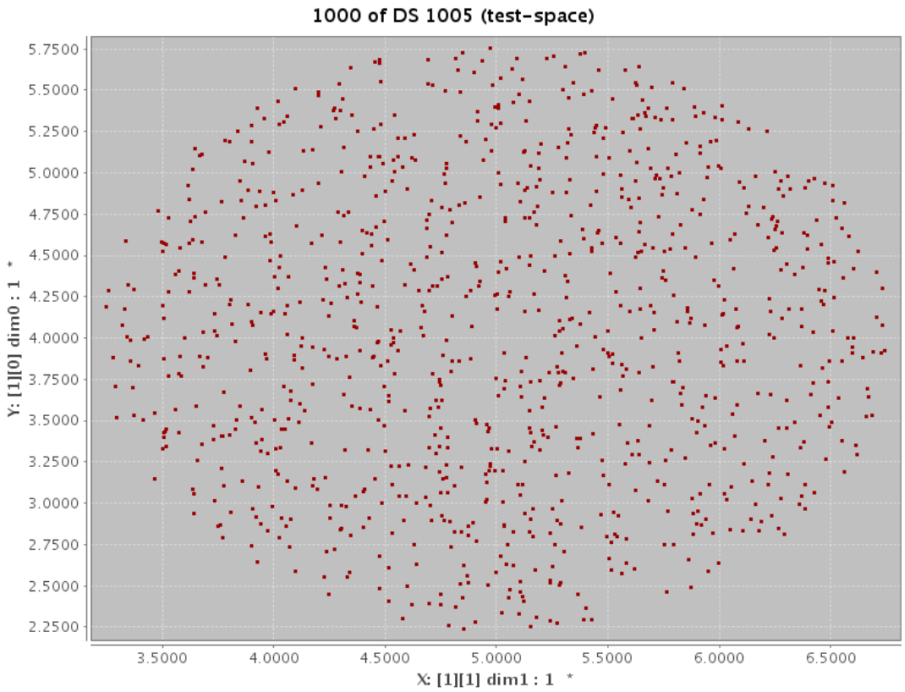
	sim |	min	max |	g
0				subv0
0				☐ dim0
1				☐ dim1
1				subv1
0	4			☑ dim0
1	5			☑ dim1
2				☐ dim2
3				☐ dim3
2				subv2
0				☐ dim0
1				☐ dim1
2				☐ dim2
3				☐ dim3

Click on the search button to activate similarity search. In the search result the nearest 1000 DVs are shown;

i4 iu kw0 login reg own home

i7=1005, o | 13-03-15' test-space || try search 0..10: subv1, subv2 filled with pseudo random numbers 0..10

search result new search repeat par csv-download search-stat DS-stat



X: av= 5.023418 sd= 0.864487 min= 3.250428 max= 6.742207
Y: av= 4.032707 sd= 0.880358 min= 2.237352 max= 5.753851

|< << < > >> >| page 1

i4	d	a	
7063	0.0981	2	o sr7063 | 7063, 70630, 3.908132833, 5.034538, 7.147611, 7.46827, 1.704745, 2.894721,
649	0.1329	1	o sr649 | 649, 6490, 4.070861859, 4.887596, 2.576471, 4.929704, 8.732638, 7.257069, 1
5111	0.1717	1	o sr5111 | 5111, 51110, 3.872798143, 4.884745, 4.474978, 5.275793, 6.588654, 8.32262
6934	0.1728	0	o sr6934 | 6934, 69340, 4.172787102, 5.001417, 3.445889, 0.808994, 2.812254, 3.44751
2750	0.174	0	o sr2750 | 2750, 27500, 3.884695863, 5.13028, 4.109866, 4.131625, 8.039367, 4.701057,
8323	0.2073	0	o sr8323 | 8323, 83230, 4.16463307, 5.125988, 9.867605, 6.472966, 3.729451, 6.551642,
5289	0.2153	0	o sr5289 | 5289, 52890, 3.863723514, 4.833327, 6.919869, 6.616594, 3.222485, 4.96139
8807	0.2228	0	o sr8807 | 8807, 88070, 3.984839645, 4.777747, 9.355307, 3.71151, 3.631522, 4.271977,
3963	0.2319	0	o sr3963 | 3963, 39630, 3.798017402, 5.113934, 7.17967, 0.439668, 8.541842, 9.503309,
7618	0.2383	0	o sr7618 | 7618, 76180, 4.134416878, 4.803261, 9.912351, 4.335135, 8.361697, 0.61382
8747	0.2413	0	o sr8747 | 8747, 87470, 3.86175477, 4.802244, 9.11172, 0.959159, 6.462922, 4.994271,
8094	0.2426	0	o sr8094 | 8094, 80940, 3.757477831, 4.99601, 0.686027, 0.330775, 3.587284, 7.596117,
7877	0.2539	0	o sr7877 | 7877, 78770, 4.169564272, 5.188969, 9.457632, 7.951833, 8.583165, 6.76111
2226	0.2594	0	o sr2226 | 2226, 22260, 4.259336229, 4.992609, 3.41702, 0.306351, 9.496402, 1.23771,
2952	0.26	0	o sr2952 | 2952, 29520, 4.253591155, 5.05726, 8.49911, 0.961599, 2.416654, 4.647838,
5470	0.264	0	o sr5470 | 5470, 54700, 4.015045871, 5.263554, 9.777864, 4.518257, 1.171337, 9.17638
9528	0.264	0	o sr9528 | 9528, 95280, 3.893096565, 4.758609, 1.747771, 7.611812, 7.382523, 3.82975
1576	0.2646	0	o sr1576 | 1576, 15760, 3.738282628, 5.038867, 7.786899, 4.336552, 5.098724, 9.83851
756	0.2671	0	o sr756 | 756, 7560, 4.267106494, 5.001222, 8.983115, 0.834437, 8.960626, 7.634141, 8
9196	0.2842	0	o sr9196 | 9196, 91960, 3.801053423, 4.797067, 9.917184, 0.3151, 6.144257, 0.380419,
5079	0.285	0	o sr5079 | 5079, 50790, 4.044300303, 5.281513, 2.736529, 4.657159, 4.619477, 4.59174
9060	0.2881	0	o sr9060 | 9060, 90600, 4.254133091, 4.86422, 8.662401, 4.849798, 8.653592, 1.367096,
5107	0.2898	0	o sr5107 | 5107, 51070, 4.2834449, 5.060374, 1.906339, 7.464272, 7.893641, 1.961405,
2844	0.2999	0	o sr2844 | 2844, 28440, 4.102658149, 5.281824, 9.370033, 0.401731, 6.475414, 8.56754
2486	0.3035	0	o sr2486 | 2486, 24860, 4.05927995, 5.297657, 6.465063, 4.440068, 6.459564, 9.345731,
5179	0.3044	0	o sr5179 | 5179, 51790, 3.909220495, 5.290577, 0.21403, 7.445727, 1.732181, 8.636606,
6151	0.3048	0	o sr6151 | 6151, 61510, 3.73565338, 5.151774, 0.300121, 9.958151, 2.845777, 7.21255,
8424	0.3096	0	o sr8424 | 8424, 84240, 3.69250655, 5.03612, 5.831018, 5.968336, 4.594454, 4.676307,
1932	0.3102	0	o sr1932 | 1932, 19320, 4.288140424, 4.885048, 6.414118, 9.665047, 5.354763, 0.75573
4345	0.3147	0	o sr4345 | 4345, 43450, 3.704845874, 5.109127, 0.957351, 5.964186, 0.083307, 9.25936
4310	0.3154	0	o sr4310 | 4310, 43100, 4.266593116, 5.168455, 2.636044, 5.173328, 2.425382, 1.88604

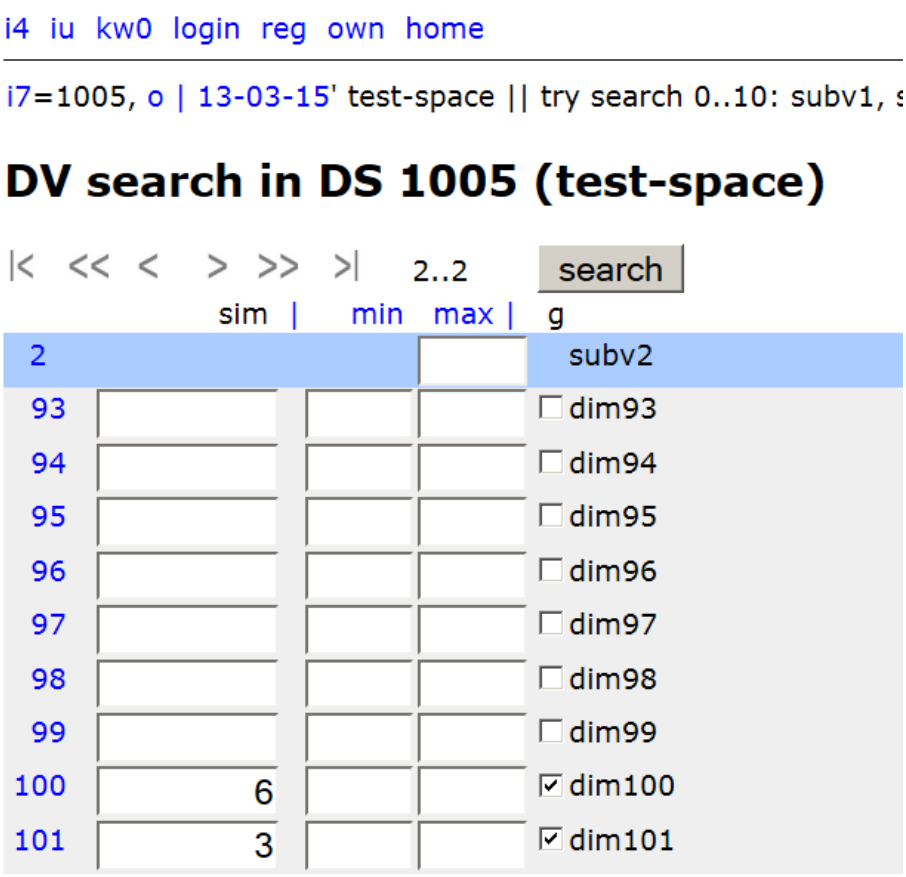
343 th search in DS 1005 (test-space) , 10001 (100%) within 10001 found, 1000 listed

new search

The nearest 1000 DVs around the searched point are shown. The spherical distribution of the graph of the search result (via checkboxes selected axes of the

graph are dim0 and dim1, in this example the same as those for similarity search) is a consequence of the euclidean metric of subvector 1;

Search of 6 on dim100 and 3 on dim101 of subvector 2 is shown in the following screen shot:

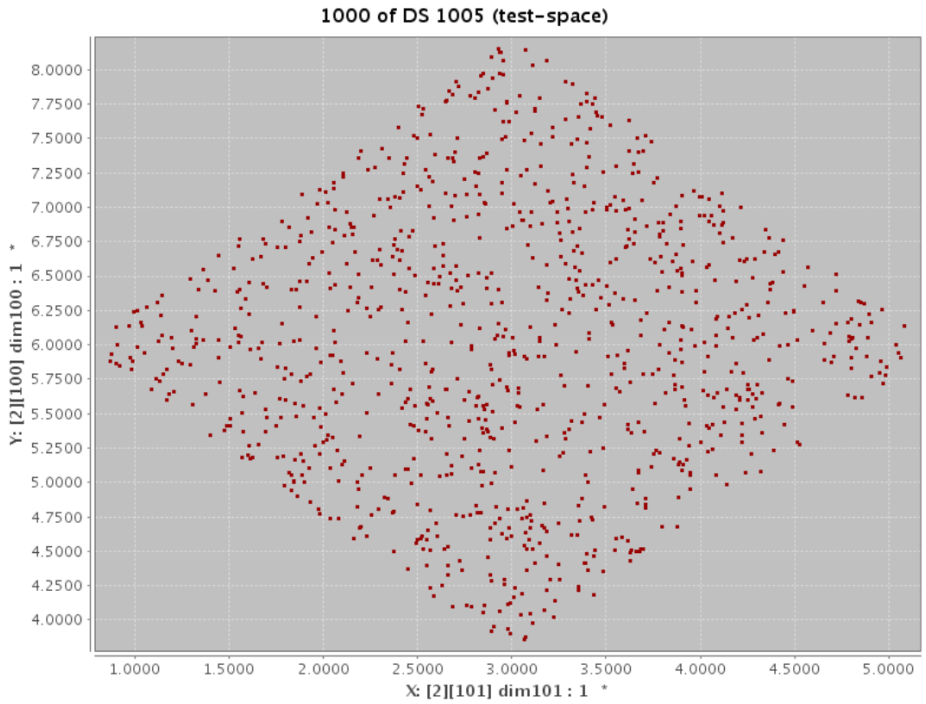


Click on the search button to activate similarity search.

i4 iu kw0 login reg own home

i7=1005, o | 13-03-15' test-space || try search 0..10: subv1, subv2 filled with pseudo random numbers 0..10

search result new search repeat par csv-download search-stat DS-stat



X: av= 2.996282 sd= 0.924117 min= 0.872104 max= 5.082777

Y: av= 6.001482 sd= 0.943491 min= 3.857126 max= 8.150704

|< << < > >> >| page 1

i4	d	a	
1739	0.0535	0	o sr1739 | 1739, 17390, 6.195098539, 2.389023, 4.017403, 9.771225, 1.174572, 7.91362
7410	0.054	0	o sr7410 | 7410, 74100, 1.365725516, 2.779944, 4.375879, 9.573409, 1.190312, 1.01163
2371	0.0673	0	o sr2371 | 2371, 23710, 1.519376218, 8.116297, 7.335234, 2.461083, 9.527403, 4.75855
1131	0.0848	0	o sr1131 | 1131, 11310, 7.063318305, 3.239314, 4.185781, 8.01757, 3.978458, 9.847661,
5197	0.092	0	o sr5197 | 5197, 51970, 2.321271707, 9.901515, 2.348217, 0.244805, 5.115325, 2.75422
9409	0.1051	0	o sr9409 | 9409, 94090, 9.106726407, 8.848572, 5.943569, 1.784816, 3.91986, 0.608172,
896	0.1327	0	o sr896 | 896, 8960, 2.33925223, 9.514341, 7.02878, 0.249577, 5.533494, 5.172647, 9.76
1146	0.1437	0	o sr1146 | 1146, 11460, 8.915135524, 0.140988, 5.117604, 6.961664, 3.114697, 0.29983,
4800	0.1496	0	o sr4800 | 4800, 48000, 8.859930913, 5.048549, 7.077379, 6.983994, 9.737872, 8.55488
1108	0.1543	0	o sr1108 | 1108, 11080, 4.514582599, 2.959683, 6.620089, 4.911879, 1.788924, 2.95067
6115	0.1709	0	o sr6115 | 6115, 61150, 0.746018835, 7.033046, 2.624209, 9.340752, 9.266899, 2.00397
55	0.1774	0	o sr55 | 55, 550, 6.654175254, 7.297583, 8.49902, 3.673403, 1.350556, 2.236699, 6.0344
6796	0.2046	0	o sr6796 | 6796, 67960, 3.241531547, 4.974589, 6.867757, 9.630783, 6.577407, 0.21383
368	0.2174	0	o sr368 | 368, 3680, 9.236071549, 5.176083, 1.181265, 5.475582, 0.762208, 1.65276, 0.4
1113	0.2225	0	o sr1113 | 1113, 11130, 6.856462419, 4.899336, 2.678397, 5.022691, 6.363746, 2.21827
5459	0.2247	0	o sr5459 | 5459, 54590, 1.044489565, 9.512492, 1.974996, 0.96808, 9.338715, 2.819463,
5261	0.2313	0	o sr5261 | 5261, 52610, 0.941462332, 7.353208, 6.94601, 5.516427, 2.53552, 7.466017,
693	0.235	0	o sr693 | 693, 6930, 9.199385511, 1.317772, 3.017132, 2.989018, 2.7092, 4.735088, 0.11
4795	0.2479	0	o sr4795 | 4795, 47950, 5.039006057, 2.130654, 6.197245, 5.745942, 6.247485, 9.71187,
7049	0.2575	0	o sr7049 | 7049, 70490, 3.619397684, 5.694758, 5.129086, 4.506231, 7.932018, 7.56032
8182	0.2644	0	o sr8182 | 8182, 81820, 8.414776266, 1.475567, 9.403994, 1.541743, 1.706018, 7.41582
3528	0.2875	0	o sr3528 | 3528, 35280, 1.307793022, 7.167736, 9.257958, 2.664894, 3.174843, 3.13773
6404	0.2932	0	o sr6404 | 6404, 64040, 2.236982434, 3.042673, 8.761163, 8.900374, 5.282674, 5.72993
5343	0.3168	0	o sr5343 | 5343, 53430, 6.789422918, 2.917401, 8.748277, 4.648841, 5.646448, 4.47978,
6233	0.3287	0	o sr6233 | 6233, 62330, 2.842154343, 2.357098, 3.083575, 1.480435, 1.501013, 4.12357,
6293	0.3359	0	o sr6293 | 6293, 62930, 1.820232656, 5.100469, 9.790028, 0.605057, 9.659593, 8.76621
8659	0.3495	0	o sr8659 | 8659, 86590, 4.742066121, 0.918493, 4.45133, 1.928547, 2.668577, 8.130827,
4612	0.3555	0	o sr4612 | 4612, 46120, 3.314298941, 9.201885, 2.271136, 4.719568, 0.632261, 9.63505
9056	0.3584	0	o sr9056 | 9056, 90560, 2.822171962, 8.373503, 0.916683, 7.96198, 0.103412, 1.281412,
3998	0.3756	0	o sr3998 | 3998, 39980, 0.054084982, 2.330585, 2.456137, 4.256623, 0.338559, 6.34631
7785	0.3827	0	o sr7785 | 7785, 77850, 5.43969239, 2.52998, 4.078987, 5.161249, 9.184545, 1.239691,

344 th search in DS 1005 (test-space) , 10001 (100%) within 10001 found, 1000 listed

new search

The nearest 1000 DVs around the searched point are shown. The rhombic shape of the resulting distrubution is consequence of the manhattan metric in subvector 2. Via checkboxes selected axes of the graph are dim100 and dim101, in this example the same as those for similarity search.