

Search History:

Limited Classification Search

The Patent Analyst performed a limited classification search within the following US, IPC, CPC, ECLA, or F-Term classification areas:

CPC Class/Subclass(es): G06F 17/30601; G06F 17/30604; G06F 17/30958; G06F 19/00; G06N 5/025 (2018.08)

IPC (8) Class/Subclass(es): G06F 17/30; G06F 3/048; G06K 9/62 (2018.01)

U.S. Class/Subclass(es): 707/758; 715/769

See Global Search Results.

Global Patent Literature Text Search

The Patent Analyst performed the following global text search, which was not limited by classification but may or may not have been limited by other criteria:

Questel Orbit: <https://www.orbit.com>

#	Search query	Results
1	(TOPOLOG+ AND DATA+ AND ANALY+ AND (NEAREST OR CLOSEST) AND NEIGHBOR+)/TI/AB/IW/OBJ/ADB/ICLM/TX AND PD <= 2017-06-28	11083
2	((AYASDI)/PA/OPA) AND PD <= 2017-06-28	17
3	(RECEIV+ AND NETWORK+ AND NODE+ AND EDGE+ AND MEMBER+ AND (DATA+ W POINT+) AND CONNECT+ AND SHAR+)/TI/AB/IW/OBJ/ADB/ICLM/TX AND PD <= 2017-06-28	3882
4	(RECEIV+ AND NETWORK+ AND NODE+ AND EDGE+ AND MEMBER+ AND (DATA+ W POINT+) AND CONNECT+ AND SHAR+ AND ROW+)/TI/AB/IW/OBJ/ADB/ICLM/TX AND PD <= 2017-06-28	2409
5	(RECEIV+ AND NETWORK+ AND NODE+ AND EDGE+ AND MEMBER+ AND (DATA+ W POINT+) AND CONNECT+ AND SHAR+ AND ROW+ AND COLUMN+)/TI/AB/IW/OBJ/ADB/ICLM/TX AND PD <= 2017-06-28	1935
6	(RECEIV+ AND NETWORK+ AND NODE+ AND EDGE+ AND MEMBER+ AND (DATA+ W POINT+) AND CONNECT+ AND SHAR+ AND ROW+ AND COLUMN+ AND (FEATURE+ OR CHARACTER+)/TI/AB/IW/OBJ/ADB/ICLM/TX AND PD <= 2017-06-28	1934
7	(RECEIV+ AND NETWORK+ AND NODE+ AND EDGE+ AND MEMBER+ AND (DATA+ W POINT+) AND CONNECT+ AND SHAR+ AND ROW+ AND COLUMN+ AND (FEATURE+ OR CHARACTER+) AND VALUE+)/TI/AB/IW/OBJ/ADB/ICLM/TX AND PD <= 2017-06-28	1929
8	(RECEIV+ AND NETWORK+ AND NODE+ AND EDGE+ AND MEMBER+ AND (DATA+ W POINT+) AND CONNECT+ AND SHAR+ AND ROW+ AND COLUMN+ AND (FEATURE+ OR CHARACTER+) AND VALUE+ AND (SELECT+ OR	1924

	CHOOS+))/TI/AB/IW/OBJ/ADB/ICLM/TX AND PD <= 2017-06-28	
9	(RECEIV+ AND NETWORK+ AND NODE+ AND EDGE+ AND MEMBER+ AND (DATA+ W POINT+) AND CONNECT+ AND SHAR+ AND ROW+ AND COLUMN+ AND (FEATURE+ OR CHARACTER+) AND VALUE+ AND (SELECT+ OR CHOOS+) AND PROPORTION+)/TI/AB/IW/OBJ/ADB/ICLM/TX AND PD <= 2017-06-28	1364
10	(RECEIV+ AND NETWORK+ AND NODE+ AND EDGE+ AND MEMBER+ AND (DATA+ W POINT+) AND CONNECT+ AND SHAR+ AND ROW+ AND COLUMN+ AND (FEATURE+ OR CHARACTER+) AND VALUE+ AND (SELECT+ OR CHOOS+) AND PROPORTION+ AND NUMBER+)/TI/AB/IW/OBJ/ADB/ICLM/TX AND PD <= 2017-06-28	1364
11	(RECEIV+ AND NETWORK+ AND NODE+ AND EDGE+ AND MEMBER+ AND (DATA+ W POINT+) AND CONNECT+ AND SHAR+ AND ROW+ AND COLUMN+ AND (FEATURE+ OR CHARACTER+) AND VALUE+ AND (SELECT+ OR CHOOS+) AND PROPORTION+ AND NUMBER+ AND DISTANCE+)/TI/AB/IW/OBJ/ADB/ICLM/TX AND PD <= 2017-06-28	0
12	(RECEIV+ AND NETWORK+ AND NODE+ AND EDGE+ AND MEMBER+ AND (DATA+ W POINT+) AND CONNECT+ AND SHAR+ AND ROW+ AND COLUMN+ AND (FEATURE+ OR CHARACTER+) AND VALUE+ AND (SELECT+ OR CHOOS+) AND PROPORTION+ AND NUMBER+ AND DISTANCE+)/TI/AB/IW/OBJ/ADB/ICLM/TX AND PD <= 2017-06-28	1199
13	(RECEIV+ AND NETWORK+ AND NODE+ AND EDGE+ AND MEMBER+ AND (DATA+ W POINT+) AND CONNECT+ AND SHAR+ AND ROW+ AND COLUMN+ AND (FEATURE+ OR CHARACTER+) AND VALUE+ AND (SELECT+ OR CHOOS+) AND PROPORTION+ AND NUMBER+ AND DISTANCE+ AND METRIC+)/TI/AB/IW/OBJ/ADB/ICLM/TX AND PD <= 2017-06-28	624
14	(RECEIV+ AND NETWORK+ AND NODE+ AND EDGE+ AND MEMBER+ AND (DATA+ W POINT+) AND CONNECT+ AND SHAR+ AND ROW+ AND COLUMN+ AND (FEATURE+ OR CHARACTER+) AND VALUE+ AND (SELECT+ OR CHOOS+) AND PROPORTION+ AND NUMBER+ AND DISTANCE+ AND METRIC+ AND VECTOR+)/TI/AB/IW/OBJ/ADB/ICLM/TX AND PD <= 2017-06-28	498
15	(707758)/PCLM AND PD <= 2017-06-28	1254
16	(707E17009)/PCLM AND PD <= 2017-06-28	0
17	(715769)/PCLM AND PD <= 2017-06-28	608
18	(G06F-003/048)/IPC AND PD <= 2017-06-28	96507
19	(G06F-017/30)/IPC AND PD <= 2017-06-28	292473
20	(G06K-009/62)/IPC AND PD <= 2017-06-28	36571
21	(G06F-017/30601)/CPC AND PD <= 2017-06-28	339

22	(G06F-017/30604)/CPC AND PD <= 2017-06-28	675
23	(G06F-017/30958)/CPC AND PD <= 2017-06-28	1834
24	(G06F-019/00)/CPC AND PD <= 2017-06-28	43429
25	(G06N-005/025)/CPC AND PD <= 2017-06-28	867
26	(G06N-099/005)/CPC AND PD <= 2017-06-28	5216
27	(G16H-050/20)/CPC AND PD <= 2017-06-28	4432
28	(G16H-050/50)/CPC AND PD <= 2017-06-28	2723

Google Patents: <https://patents.google.com>

#	Search query	Results
1	topological data analysis using nearest neighbors	21,000
2	inassignee:AYASDI topological data analysis using nearest neighbors	16
3	receive network of nodes and edges nodes comprising members representative of initial data points edges connecting nodes sharing data points	49,700
4	receive network of nodes and edges nodes comprising members representative of initial data points edges connecting nodes sharing data points initial data points including rows and columns	16,200
5	receive network of nodes and edges nodes comprising members representative of initial data points edges connecting nodes sharing data points initial data points including rows and columns features	16,300
6	receive network of nodes and edges nodes comprising members representative of initial data points edges connecting nodes sharing data points initial data points including rows and columns features values	15,500
7	select data points if only one data point being member of node one data point selected to be member of data points	1,380,000
8	select data points if two or more data points being member of node proportional number of data points relative to all data points being members of node selected to be members of data points	60,400
9	determine predetermined number of other data points closest in distance to selected data points, distance determined based on metric function between vector of data points	23,100
10	group selected data points into groups based on predetermined number of other data points of selected data points closest in distance	86,700
11	select data points of nodes, if only one data point member, select the one data point, if two or more data points member select proportional number of data points	110,000
12	select proportional number of data points of nodes	127,000
13	select data points of nodes, if only one data point, select the single data point, if two or more data points member select half of data points	130,000

14	select half of data points of nodes	247,000
----	-------------------------------------	---------

Computer Accessed Text Databases Searched

The Patent Analyst searched the following computer accessed text databases:

Google: <https://www.google.com/>

#	Search query	Results
1	topological data analysis using nearest neighbors	4,000,000
2	AYASDI topological data analysis using nearest neighbors	1,900
3	receive network of nodes and edges nodes comprising members representative of initial data points edges connecting nodes sharing data points	6,010,000
4	receive network of nodes and edges nodes comprising members representative of initial data points edges connecting nodes sharing data points initial data points including rows and columns	814,000
5	receive network of nodes and edges nodes comprising members representative of initial data points edges connecting nodes sharing data points initial data points including rows and columns features	858,000
6	receive network of nodes and edges nodes comprising members representative of initial data points edges connecting nodes sharing data points initial data points including rows and columns features values	781,000
7	select data points if only one data point being member of node one data point selected to be member of data points	41,100,000
8	select data points if two or more data points being member of node proportional number of data points relative to all data points being members of node selected to be members of data points	11,100,000
9	determine predetermined number of other data points closest in distance to selected data points, distance determined based on metric function between vector of data points	387,000
10	group selected data points into groups based on predetermined number of other data points of selected data points closest in distance	2,040,000
11	select data points of nodes, if only one data point member, select the one data point, if two or more data points member select proportional number of data points	14,100,000
12	select proportional number of data points of nodes	9,510,000
13	select data points of nodes, if only one data point, select the single data point, if two or more data points member select half of data points	18,400,000
14	select half of data points of nodes	15,600,000

Google Scholar: <https://scholar.google.com/>

#	Search query	Results
1	topological data analysis using nearest neighbors	92,800
2	AYASDI topological data analysis using nearest neighbors	67

3	receive network of nodes and edges nodes comprising members representative of initial data points edges connecting nodes sharing data points	20,100
4	receive network of nodes and edges nodes comprising members representative of initial data points edges connecting nodes sharing data points initial data points including rows and columns	17,500
5	receive network of nodes and edges nodes comprising members representative of initial data points edges connecting nodes sharing data points initial data points including rows and columns features	17,200
6	receive network of nodes and edges nodes comprising members representative of initial data points edges connecting nodes sharing data points initial data points including rows and columns features values	17,200
7	select data points if only one data point being member of node one data point selected to be member of data points	202,000
8	select data points if two or more data points being member of node proportional number of data points relative to all data points being members of node selected to be members of data points	42,600
9	determine predetermined number of other data points closest in distance to selected data points, distance determined based on metric function between vector of data points	20,600
10	group selected data points into groups based on predetermined number of other data points of selected data points closest in distance	47,200
11	select data points of nodes, if only one data point member, select the one data point, if two or more data points member select proportional number of data points	75,100
12	select proportional number of data points of nodes	230,000
13	select data points of nodes, if only one data point, select the single data point, if two or more data points member select half of data points	131,000
14	select half of data points of nodes	503,000

Date search was completed: 30 August 2018

EH/MP