

## 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:

U.S. Class/Subclass(es): 382/159; 382/171; 382/176; 382/182; 382/185; 382/187; 382/305

IPC (8) Class/Subclass(es): G06F 17/27; G06K 9/00; G06K 9/12; G06K 9/18; G06K 9/34; G06K 9/46; G06K 9/48; G06K 9/54; G06K 9/60; G06K 9/62; G06K 9/72 (2016.01)

CPC Class/Subclass(es): G06K 9/00; G06K 9/00422; G06K 9/18; G06K 9/222; G06K 9/4661; G06K 9/6256; G06K 9/6835 (2016.01)

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	(TEXT LINE CLASSIFIER)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	1
2	(TERMINAL SYSTEM FONT RESERVOIR)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	0
3	(FONT RESERVOIR)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	0
4	(TERMINAL SYSTEM AND FONT)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	34
5	(EXTRACTING FEATURES AND SAMPLES)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	290
6	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	8009
7	(TRAINING MODELS)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	231
8	(DETECT AND IMAGE AND SCORE)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	792
9	(DETECT TEXT REGION)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	1
10	(PER-DETERMINED THRESHOLD)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	3
11	(CHARACTER SAMPLES)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	52
12	(CHARACTER AND (SIZE OR ROTATION ANGLE OR FONT))/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	43031
13	(HISTOGRAM FEATURE OR GRADIENT MAGNITUDE OR PIXEL HISTOGRAM)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	569
14	(ASSIGNING WEIGHTS AND MODEL)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	91

15	(MSER)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	37
16	(MSER AND MAXIMAL)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	1
17	(STROKE WIDTH TRANSFORM)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	3
18	(STROKE FEATURE TRANSFORM)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	0
19	5 AND 6	2
20	7 AND 8	0
21	11 AND 12	20
22	13 AND 14	0
23	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (382159)/PCLM AND PD <= 2015-03-25	17
24	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (382171)/PCLM AND PD <= 2015-03-25	7
25	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (382176)/PCLM AND PD <= 2015-03-25	69
26	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (382182)/PCLM AND PD <= 2015-03-25	89
27	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (382185)/PCLM AND PD <= 2015-03-25	5
28	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (382187)/PCLM AND PD <= 2015-03-25	39
29	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (382305)/PCLM AND PD <= 2015-03-25	20
30	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06F-017/27)/IPC AND PD <= 2015-03-25	113
31	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/00)/IPC AND PD <= 2015-03-25	1560
32	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/12)/IPC AND PD <= 2015-03-25	31
33	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/18)/IPC AND PD <= 2015-03-25	334
34	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/34)/IPC AND PD <= 2015-03-25	425
35	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/46)/IPC AND PD <= 2015-03-25	306

36	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/48)/IPC AND PD <= 2015-03-25	73
37	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/54)/IPC AND PD <= 2015-03-25	56
38	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/60)/IPC AND PD <= 2015-03-25	60
39	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/62)/IPC AND PD <= 2015-03-25	589
40	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/72)/IPC AND PD <= 2015-03-25	310
41	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/00)/CPC AND PD <= 2015-03-25	582
42	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/00422)/CPC AND PD <= 2015-03-25	6
43	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/18)/CPC AND PD <= 2015-03-25	121
44	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/222)/CPC AND PD <= 2015-03-25	14
45	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/4661)/CPC AND PD <= 2015-03-25	2
46	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/6256)/CPC AND PD <= 2015-03-25	11
47	(OPTICAL CHARACTER RECOGNITION OR OCR)/TI/AB/IW/OBJ/ADB/ICLM AND (G06K-009/6835)/CPC AND PD <= 2015-03-25	5
48	(PRE-DETERMINED THRESHOLD)/TI/AB/IW/OBJ/ADB/ICLM AND PD <= 2015-03-25	1953

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

#	Search query	Results
1	OCR AND chinese	100+
2	OCR AND "chinese characters"	45
3	"OCR" AND samples AND font reservoir AND extracting features	22
4	"OCR" AND samples AND text line classifier AND extracting features	100+
5	"OCR" AND "training samples" AND text line classifier AND extracting features	27
6	"OCR" AND "detecting images" AND text line classifier AND extracting features	23
7	"OCR" AND "rotation angle" AND text line classifier AND extracting features	25

8	"OCR" AND "maximal stable extremal region"	1
9	maximally stable extremal region	39
10	"stroke width" AND "stroke feature" AND OCR	16

**Computer Accessed Text Databases Searched**

The Patent Analyst searched the following computer accessed text databases:

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

#	Search query	Results
1	OCR AND "chinese characters"	100+
2	"OCR" AND samples AND font reservoir AND extracting features	100+
3	"OCR" AND "training samples" AND text line classifier AND extracting features	100+
4	"OCR" AND "rotation angle" AND text line classifier AND extracting features	100+
5	"OCR" AND "maximal stable extremal region"	7
6	"stroke width" AND "stroke feature" AND OCR	80

Date search was completed: 17 May 2016

TM/MP