

A Search string

A.1 Scopus

```
( TITLE-ABS-KEY ( "quantum pattern recognition" ) OR
(
  TITLE-ABS-KEY ( "quantum" ) AND (
    TITLE-ABS-KEY ( "pattern recognition" ) OR
    TITLE-ABS-KEY ( "classification" ) OR
    TITLE-ABS-KEY ( "clustering" ) OR
    TITLE-ABS-KEY ( "bayes" ) OR
    TITLE-ABS-KEY ( "markov" ) OR
    TITLE-ABS-KEY ( "likelihood" ) OR
    TITLE-ABS-KEY ( "gibbs" ) OR
    TITLE-ABS-KEY ( "PCA" ) OR
    TITLE-ABS-KEY ( "parzen" ) OR
    TITLE-ABS-KEY ( "neighbor" ) OR
    TITLE-ABS-KEY ( "Fisher" ) OR
    TITLE-ABS-KEY ( "deep learning" ) OR
    TITLE-ABS-KEY ( "support vector machine" ) OR
    TITLE-ABS-KEY ( "neural network" ) OR
    TITLE-ABS-KEY ( "convolutional" ) OR
    TITLE-ABS-KEY ( "recurrent" ) OR
    TITLE-ABS-KEY ( "backpropagation" ) OR
    TITLE-ABS-KEY ( "radial" ) OR
    TITLE-ABS-KEY ( "boltzman" ) OR
    TITLE-ABS-KEY ( "decision tree" ) OR
    TITLE-ABS-KEY ( "classifier" ) OR
    TITLE-ABS-KEY ( "re-identification" ) OR
    TITLE-ABS-KEY ( "unsupervised" ) OR
    TITLE-ABS-KEY ( "supervised" ) OR
    TITLE-ABS-KEY ( "reinforcement" )
  ) ) AND (
    TITLE-ABS-KEY ( "visual" ) OR
    TITLE-ABS-KEY ( "video" ) OR
    TITLE-ABS-KEY ( "image" )
  )
)
```

A.2 WebOfScience

```
(
TS = ( "quantum pattern recognition" ) OR
(
  TS = ( "quantum" ) AND (
    TS = ( "pattern recognition" ) OR
```

```

TS = ( "classification" ) OR
TS = ( "clustering" ) OR
TS = ( "bayes" ) OR
TS = ( "markov" ) OR
TS = ( "likelihood" ) OR
TS = ( "gibbs" ) OR
TS = ( "PCA" ) OR
TS = ( "parzen" ) OR
TS = ( "neighbor" ) OR
TS = ( "Fisher" ) OR
TS = ( "deep learning" ) OR
TS = ( "support vector machine" ) OR
TS = ( "neural network" ) OR
TS = ( "convolutional" ) OR
TS = ( "recurrent" ) OR
TS = ( "backpropagation" ) OR
TS = ( "radial" ) OR
TS = ( "boltzman" ) OR
TS = ( "decision tree" ) OR
TS = ( "classifier" ) OR
TS = ( "re-identification" ) OR
TS = ( "unsupervised" ) OR
TS = ( "supervised" ) OR
TS = ( "reinforcement" )
)
) AND (
TS = ( "visual" ) OR
TS = ( "video" ) OR
TS = ( "image" )
)
)

```

B Inclusion/Exclusion criteria

B.1 Scopus

```

AND (PUBYEAR > 2019)
AND (PUBYEAR < 2024)
AND
(
SRCTYPE(j)
OR SRCTYPE(p)
)
AND SUBJAREA(COMP)

```

B.2 Web of Science

```
AND DT=(Article OR Proceedings Paper)
AND PY=(2020-2023)
AND (WC=(Computer Science, Artificial Intelligence)
      OR WC=(Quantum Science & Technology))
)
```

C Evidences

C.1 Scopus results

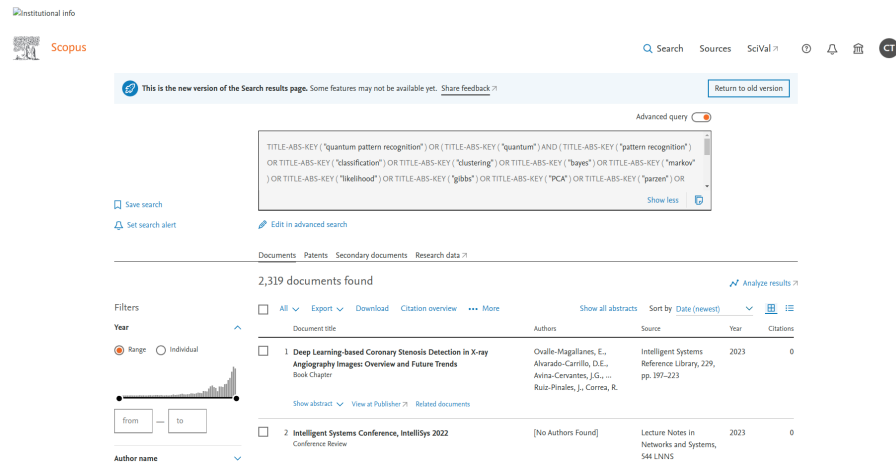


Figure 1: Scopus' results **2319**

C.2 Scopus results with inclusion/exclusion criteria

C.3 WebOfScience results

C.4 WebOfScience results with inclusion/exclusion criteria

C.5 Final list of selected articles

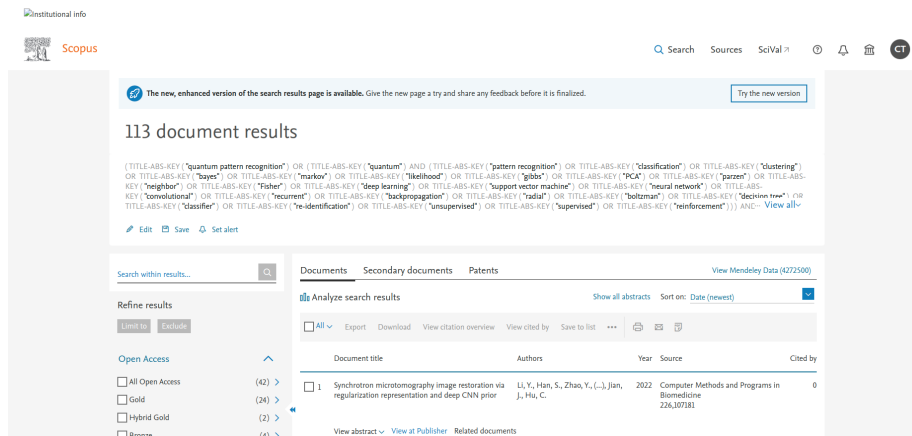


Figure 2: Filtered result from scopus (since 2020). Results: **113**

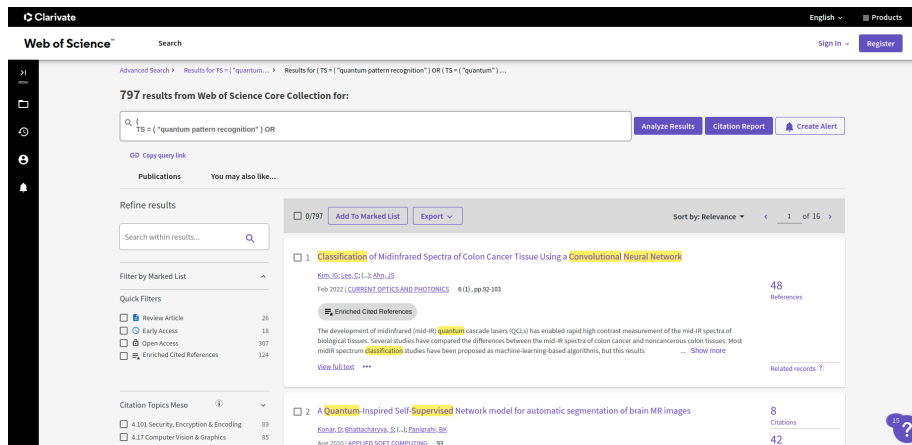


Figure 3: Web of Science's results - **797**

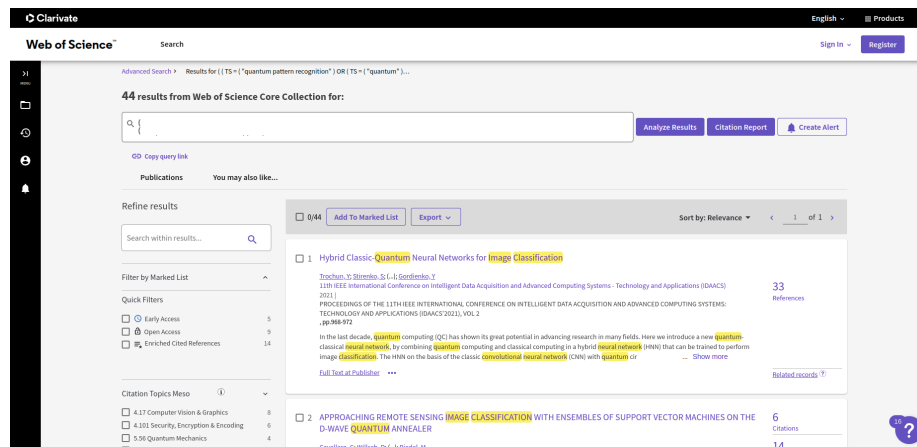


Figure 4: Filtered result from Web of Science (since 2020). Results: 44

	Authors	Title	Year	Source title	DOI	Link	ISSN	Google HS	SciMago H-Index	SimpleMetric
1	Singh, P., Bose, S.S.	A quantum-clustering optimization method for COVID-19 CT scan image segm	2021	Expert Systems with Applications	10.1016/j.eswa.2021.115637	https://doi.org/10.1016/j.eswa.2021.115637	0957-4174	132	225	225
2	Dutta, T., Dey, S., Bh	Hyperspectral multi-level image thresholding using qurtf genetic algorithm	2021	Expert Systems with Applications	10.1016/j.eswa.2021.115107	https://doi.org/10.1016/j.eswa.2021.115107		132	225	225
3	Eason-McCaddin, P.	Efficient Quantum Image Classification Using Single Qubit Encoding	2021	IEEE Transactions on Neural Networ	10.1109/TNNLS.2022.3179354	https://doi.org/10.1109/TNNLS.2022.3179354	2162-237X	131	221	221
4	Konar, D., Panigrahi, A.	Auto-diagnosis of covid-19 using lung ct images with semi-supervised shallow	2021	IEEE Access	10.1109/ACCESS.2021.3058854	https://doi.org/10.1109/ACCESS.2021.3058854		200	158	200
5	Yunin, D., Wu, M., Z	Recognition of Pneumonia Image Based on Improved Quantum Neural Netwo	2020	IEEE Access	10.1109/ACCESS.2020.3044697	https://doi.org/10.1109/ACCESS.2020.3044697		200	158	200
6	Chen, H., Miao, F., S	Hyperspectral Remote Sensing Image Classification with CNN Based on Quat	2020	IEEE Access	10.1109/ACCESS.2020.2997912	https://doi.org/10.1109/ACCESS.2020.2997912		200	158	200
7	Parthasarathy, R., B	Quantum Optical Convolutional Neural Network: A Novel Image Recognition F	2021	IEEE Access	10.1109/ACCESS.2021.3098775	https://doi.org/10.1109/ACCESS.2021.3098775	1568-4946	200	158	200
8	Majji, S.R., Chaturmu	Quantum Processing in Fusion of SAR and Optical Images for Deep Learning	2022	IEEE Access	10.1109/ACCESS.2022.318474	https://doi.org/10.1109/ACCESS.2022.318474		200	158	200
9	Gkourmas, D., Li, Q.	Quantum Cognitively Motivated Decision Fusion for Video Sentiment Analysis	2021	35th AAAI Conference on Artificial Int	10.48550/arXiv.2101.04406	https://doi.org/10.48550/arXiv.2101.04406		180	75	180
10	Wang, Y., Wang, Y., I	Development of variational quantum deep neural networks for image recogniti	2022	Neurocomputing	10.1016/j.neucom.2022.06.010	https://doi.org/10.1016/j.neucom.2022.06.010	0925-2312	123	157	157
11	Tariq Jamal, A., Ben	Tumor edge detection in mammography images using quantum and machine l	2021	Neural Computing and Applications	10.1007/s00521-020-05518-x	https://doi.org/10.1007/s00521-020-05518-x		99	157	157
12	Guo, Y., Wei, L., Xu, A	Sonar image segmentation algorithm based on quantum-inspired particle sw	2020	Neural Computing and Applications	10.1007/s00521-018-3890-6	https://doi.org/10.1007/s00521-018-3890-6	1562-2479	99	157	157
13	Amin, J., Ajuun, M.A	A secure two-qubit quantum model for segmentation and classification of brain	2022	Neural Computing and Applications	10.1007/s00521-022-07389-x	https://doi.org/10.1007/s00521-022-07389-x		99	157	157
14	Derrouz, H., Cabri, A	End-to-end quantum-inspired method for vehicle classification based on video	2022	Neural Computing and Applications	10.1007/s00521-021-06718-9	https://doi.org/10.1007/s00521-021-06718-9		99	157	157
15	Konar, D., Bhattacha	A Quantum-Inspired Self-Supervised Network model for automatic segmentat	2020	Applied Soft Computing	10.1016/j.aesc.2020.106348	https://doi.org/10.1016/j.aesc.2020.106348		112	156	156
16	Dey, A., Dey, S., Bha	Novel quantum inspired approaches for automatic clustering of gray level im	2020	Applied Soft Computing	10.1016/j.aesc.2019.106040	https://doi.org/10.1016/j.aesc.2019.106040	2153-6996	112	156	156
17	Gkourmas, D., Li, Q.	An Entanglement-driven Fusion Neural Network for Video Sentiment Analysis	2021	LCAI International Joint Conference	10.24963/ijcai.20217239	https://doi.org/10.24963/ijcai.20217239	1566-2535	120	142	142
18	Li, Q., Gkourmas, D.	Quantum-inspired multimodal fusion for video sentiment analysis	2021	Information Fusion	10.1016/j.inffus.2020.08.006	https://doi.org/10.1016/j.inffus.2020.08.006		97	120	120
19	Dey, A., Dey, S., Bha	Quantum inspired meta-heuristic approaches for automatic clustering of colour	2021	International Journal of Intelligent Sy	10.1002/ijit.22494	https://doi.org/10.1002/ijit.22494		63	92	92
20	Alam, M., Kundu, S.	Quantum-Classical Hybrid Machine Learning for Image Classification (ICCAD	2021	IEEE/ACM International Conference	10.1109/ICCAD51968.2021.9643516	https://doi.org/10.1109/ICCAD51968.2021.9643516		39	91	91
21	Abdel-Khaliek, S., Al	Quantum neural network-based multilabel image classification in high-resolut	2021	Soft Computing	10.1007/s00500-021-06480-3	https://doi.org/10.1007/s00500-021-06480-3		79	90	90
22	Chen, J., Qi, X., Che	Quantum-inspired ant lion-optimized hybrid fuzzy c-means method for fuzzy cl	2021	Soft Computing	10.1007/s00500-021-06391-z	https://doi.org/10.1007/s00500-021-06391-z	1432-7643	79	90	90
23	Luo, T.-J.	High-resolution SAR images segmentation using NSCT denoising and QIGA-1	2020	Multimedia Tools and Applications	10.1007/s11042-020-09536-8	https://doi.org/10.1007/s11042-020-09536-8		87	80	87
24	Wu, Y., Xu, Z.	Massive-scale visual information retrieval towards city residential environment	2020	Journal of Visual Communication and	10.1016/j.jvcir.2019.102739	https://doi.org/10.1016/j.jvcir.2019.102739	2379-8920	49	84	84
25	Bhattacharyya, S., D	Multilevel Quantum Inspired Fractional Order Ant Colony Optimization for Aut	2020	2020 IEEE Congress on Evolutionary	10.1109/CEC48606.2020.9185589	https://doi.org/10.1109/CEC48606.2020.9185589		83	12	83
26	Dey, A., Bhattachary	Automatic clustering of colour images using quantum inspired meta-heuristic a	2022	Applied Intelligence	10.1007/s10489-022-03906-8	https://doi.org/10.1007/s10489-022-03906-8		65	72	72
27	Wang, C., Song, X.	Hyperspectral image classification based on clustering dimensionality reductio	2022	Machine Vision and Applications	10.1007/s00138-022-01340-8	https://doi.org/10.1007/s00138-022-01340-8	0932-8092	29	70	70
28	Gao, Y., Pan, Y., Hui	Swarm intelligence algorithm for extracting spatial spectrum features of hyper	2020	Journal of Intelligent and Fuzzy Syst	10.3233/JIFS-179990	https://doi.org/10.3233/JIFS-179990		0	64	64
29	Ogornbaatar, S., Dat	Assembly of a coreset of earth observation images on a small quantum comp	2021	Electronics (Switzerland)	10.3390/electronics10202462	https://doi.org/10.3390/electronics10202462		63	49	63
30	Nguyen, T., Paik, I., I	An Evaluation of Hardware-Efficient Quantum Neural Networks for Image Data	2022	Electronics (Switzerland)	10.3390/electronics11030437	https://doi.org/10.3390/electronics11030437		63	49	63
31	Chalimur, A., Kure,	Quantum-enhanced deep neural network architecture for image scene classifi	2021	Quantum Information Processing	10.1007/s11128-021-03314-7	https://doi.org/10.1007/s11128-021-03314-7	1570-0755	43	60	60
32	Jing, Y., Li, X., Yang,	RGB image classification with quantum convolutional ansatz	2022	Quantum Information Processing	10.1007/s11128-022-03442-8	https://doi.org/10.1007/s11128-022-03442-8		43	60	60
33	Chen, G., Chen, Q.	Quantum convolutional neural network for image classification	2022	Pattern Analysis and Applications	10.1007/97810044-022-01113-z	https://doi.org/10.1007/97810044-022-01113-z	1433-7541	34	58	58
34	Li, Y., Hao, D., Xu, Y.	A Fast Quantum Image Component Labeling Algorithm	2022	Mathematics	10.3390/math101152718	https://doi.org/10.3390/math101152718		57	0	57
35	Li, YaoChong Zhou,	A quantum deep convolutional neural network for image recognition	2020	QUANTUM SCIENCE AND TECHN	10.1088/2058-9565/ab9983	https://doi.org/10.1088/2058-9565/ab9983	2058-9565	54	35	54
36	Huang, Y.-P., Singh,	A Type-2 Fuzzy Clustering and Quantum Optimization Approach for Crops Im	2021	International Journal of Fuzzy System	10.1007/s40015-020-01009-2	https://doi.org/10.1007/s40015-020-01009-2	0941-0643	50	47	50
37	Soto-Paredes, C., S	Hybrid Model of Quantum Transfer Learning to Classify Face Images with a C	2021	International Journal of Advanced Co	10.14569/IJACSA.2021.0121092	https://doi.org/10.14569/IJACSA.2021.0121092		49	23	49
38	Muliana, A.B., Stan	Handwritten Numeric Image Classification with Quantum Neural Network usin	2020	International Journal of Advanced Co	10.14569/IJACSA.2020.0111040	https://doi.org/10.14569/IJACSA.2020.0111040		49	23	49

Figure 5: Final list of selected articles