

## Full search strategy

### MEDLINE

All Ovid Medline <1946 - present>

- 1 exp Health Personnel/ 542937
- 2 ((health\* or care or medical or nursing or surgical) adj2 (personnel or provider\* or professional\* or workforce or employee\* or worker\* or technician\* or practitioner\* or aide\* or officer\* or staff)).ti,kf. 77311
- 3 ((health\* or care or medical or nursing or surgical) adj2 (personnel or provider\* or professional\* or workforce or employee\* or worker\* or technician\* or practitioner\* or aide\* or officer\* or staff)).ab. /freq=2 92720
- 4 clinician\*.tw,kf. 247645
- 5 (physician\* or an?esthetist\* or an?esthesiologist\* or audiologist\* or doula\* or nutritionist\* or dietitian\* or occupational therapist\* or pharmacist\* or physical therapist\* or physiotherapist\* or allergist\* or cardiologist\* or dermatologist\* or endocrinologist\* or gastroenterologist\* or hepatologist\* or general practitioner\* or geriatrician\* or gerontologist\* or gyn?ecologist\* or hospitalist\* or internist\* or nephrologist\* or neurologist\* or obstetrician\* or oncologist\* or ophthalmologist\* or otolaryngologist\* or otologist\* or p?ediatrician\* or neonatologist\* or physiatrist\* or psychiatrist\* or pulmonologist\* or radiologist\* or respirologist\* or rheumatologist\* or surgeon\* or neurosurgeon\* or urologist\* or psychotherapist\*).tw,kf. 946388
- 6 nurse\*.tw,kf. 291091
- 7 (emergency medical technician\* or EMT or EMTs or paramedic\*).tw,kf. 35485
- 8 1 or 2 or 3 or 4 or 5 or 6 or 7 1803413
- 9 exp Artificial Intelligence/ 115352
- 10 ((artificial or computational or machine or ambient) adj3 (intelligence or superintelligence)).tw,kf. 15129
- 11 AI.tw,kf. 30842
- 12 intelligent agent\*.tw,kf. 197
- 13 (text min\* or textmin\*).tw,kf. 3114
- 14 ((computer or automated or machine) adj2 (reasoning or inference\*)).tw,kf. 289
- 15 computer vision system\*.tw,kf. 263
- 16 (multi?criteria decision\* or multiple criteria decision\*).tw,kf. 627
- 17 machine learning.tw,kf. 45438
- 18 deep learning.tw,kf. 18934
- 19 hierarchical learning.tw,kf. 71
- 20 semi?supervised learning.tw,kf. 148
- 21 support vector\*.tw,kf. 19651
- 22 (heuristic\* or hyperheuristic\* or metaheuristic\*).tw,kf. 13279
- 23 expert system\*.tw,kf. 3129
- 24 fuzzy logic.tw,kf. 2100
- 25 knowledge?base\*.tw,kf. 966
- 26 natural language processing\*.tw,kf. 4461
- 27 (neural network\* or perceptron\*).tw,kf. 63015
- 28 connectionist model\*.tw,kf. 500
- 29 (robotics or remote operation\* or telerobotic\*).tw,kf. 9606

30 segmentation.tw,kf. 40648  
 31 big data.tw,kf. 9037  
 32 (algorithm\* adj4 computer\*).tw,kf. 4965  
 33 ((AI or "computer assisted " or "computer aided" or "computer-assisted " or "computer-aided") adj2 (predict\* or detect\* or diagnos\* or "medical record\*" or "health record\*")).tw,kf. 7585  
 34 (digital pathology or perceptron\* or connectionist or conversational agent\* or chat-bot\* or chatbot\*).tw,kf. 5753  
 35 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 287740  
 36 exp Health Personnel/px [Psychology] 119549  
 37 Adaptation, Psychological/ 97725  
 38 Trust/ 10562  
 39 attitude/ or "attitude of health personnel"/ or attitude to computers/ 177139  
 40 emotions/ or anger/ or anxiety/ or fear/ or frustration/ or hostility/ 191725  
 41 Comprehension/ 15429  
 42 Perception/ 37141  
 43 Discrimination, Psychological/ 19738  
 44 workflow/ 6552  
 45 practice patterns, pharmacists'/ or practice patterns, nurses'/ or practice patterns, physicians'/ 65718  
 46 impact.ti,kf. 258522  
 47 adaptability.tw,kf. 12609  
 48 (trust\* or distrust\* or mistrust\*).tw,kf. 58680  
 49 attitude\*.tw,kf. 164110  
 50 (reliant or reliance or dependent or dependence).tw,kf. 1696791  
 51 (emotion or emotions or anger\* or anxiet\* or anxious\* or nervous\* or fear or fears or fearful or frustration\* or hostile or hostility).ti,kf. 218492  
 52 perception\*.tw,kf. 283225  
 53 susceptibility.tw,kf. 291850  
 54 interpretability.tw,kf. 3796  
 55 acceptability.tw,kf. 41635  
 56 feasibility.tw,kf. 200724  
 57 workflow\*.tw,kf. 28888  
 58 practice pattern\*.tw,kf. 9590  
 59 36 or 37 or 38 or 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 3511009  
 60 8 and 35 and 59 4419  
 61 exp animals/ not humans.sh. 4846367  
 62 60 not 61 4356  
 63 limit 62 to (case reports or comment or editorial or letter) 69  
 64 62 not 63 4287

<https://ovidsp.ovid.com/ovidweb.cgi?T=JS&NEWS=N&PAGE=main&SHAREDSEARCHID=5bFDNNXyrivmChiN2eqQOJajdT240UHUnn4XaCSp9FgoamYJ0IjB4PDsNU4aQF>

## PsycINFO

APA PsycInfo <1806 to June Week 2 2021>

- 1 exp health personnel/ 170192
- 2 ((health\* or care or medical or nursing or surgical) adj2 (personnel or provider\* or professional\* or workforce or employee\* or worker\* or technician\* or practitioner\* or aide\* or officer\* or staff)).ti,id.38224
- 3 ((health\* or care or medical or nursing or surgical) adj2 (personnel or provider\* or professional\* or workforce or employee\* or worker\* or technician\* or practitioner\* or aide\* or officer\* or staff)).ab. /freq=2 32789
- 4 clinician\*.ti,ab,id. 95604
- 5 (physician\* or an?esthetist\* or an?esthesiologist\* or audiologist\* or doula\* or nutritionist\* or dietitian\* or occupational therapist\* or pharmacist\* or physical therapist\* or physiotherapist\* or allergist\* or cardiologist\* or dermatologist\* or endocrinologist\* or gastroenterologist\* or hepatologist\* or general practitioner\* or geriatrician\* or gerontologist\* or gyn?ecologist\* or hospitalist\* or internist\* or nephrologist\* or neurologist\* or obstetrician\* or oncologist\* or ophthalmologist\* or otolaryngologist\* or otologist\* or p?ediatrician\* or neonatologist\* or physiatrist\* or psychiatrist\* or pulmonologist\* or radiologist\* or respirologist\* or rheumatologist\* or surgeon\* or neurosurgeon\* or urologist\* or psychotherapist\*).ti,ab,id. 153091
- 6 nurse\*.ti,ab,id.72285
- 7 (emergency medical technician\* or EMT or EMTs or paramedic\*).ti,ab,id. 1290
- 8 1 or 2 or 3 or 4 or 5 or 6 or 7 398753
- 9 exp artificial intelligence/ 23505
- 10 expert systems/ 5793
- 11 fuzzy logic/ 1658
- 12 exp robotics/ 8437
- 13 ((artificial or computational or machine or ambient) adj3 (intelligence or superintelligence)).ti,ab,id. 6166
- 14 AI.ti,ab,id. 4656
- 15 intelligent agent\*.ti,ab,id. 395
- 16 (text min\* or textmin\*).ti,ab,id. 728
- 17 ((computer or automated or machine) adj2 (reasoning or inference\*)).ti,ab,id. 156
- 18 computer vision system\*.ti,ab,id. 71
- 19 (multi?criteria decision\* or multiple criteria decision\*).ti,ab,id. 302
- 20 machine learning.ti,ab,id. 7980
- 21 deep learning.ti,ab,id. 1843
- 22 hierarchical learning.ti,ab,id. 72
- 23 semi?supervised learning.ti,ab,id. 28
- 24 support vector\*.ti,ab,id. 3089
- 25 (heuristic\* or hyperheuristic\* or metaheuristic\*).ti,ab,id. 15622
- 26 expert system\*.ti,ab,id. 1815
- 27 fuzzy logic.ti,ab,id. 753
- 28 knowledge?base\*.ti,ab,id. 63
- 29 natural language processing\*.ti,ab,id.1268
- 30 (neural network\* or perceptron\*).ti,ab,id. 20091
- 31 connectionist model\*.ti,ab,id. 1380

32 (robotics or remote operation\* or telerobotic\*).ti,ab,id. 2851  
 33 segmentation.ti,ab,id. 8091  
 34 big data.ti,ab,id. 2243  
 35 (algorithm\* adj4 computer\*).ti,ab,id. 736  
 36 ((AI or "computer assisted " or "computer aided" or "computer-assisted " or "computer-aided") adj2 (predict\* or detect\* or diagnos\* or "medical record\*" or "health record\*")).ti,ab,id. 368  
 37 (digital pathology or perceptron\* or connectionist or conversational agent\* or chat-bot\* or chatbot\*).ti,ab,id. 3803  
 38 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 86758  
 39 adaptation/ 9375  
 40 "trust (social behavior)"/ 12169  
 41 attitudes/ or computer attitudes/ or exp health personnel attitudes/ 54260  
 42 emotions/ or negative emotions/ or positive emotions/ 56085  
 43 anger/ or anxiety/ or fear/ or frustration/ or hostility/97341  
 44 comprehension/ 13172  
 45 perception/ 23160  
 46 discrimination/ 7128  
 47 impact.ti,id. 78194  
 48 adaptability.ti,ab,id. 6893  
 49 (trust\* or distrust\* or mistrust\*).ti,ab,id. 52530  
 50 attitude\*.ti,ab,id. 244334  
 51 (reliant or reliance or dependent or dependence).ti,ab,id. 218471  
 52 (emotion or emotions or anger\* or anxiet\* or anxious\* or nervous\* or fear or fears or fearful or frustration\* or hostile or hostility).ti,id. 233030  
 53 perception\*.ti,ab,id. 341723  
 54 susceptibility.ti,ab,id. 25303  
 55 interpretability.ti,ab,id. 1178  
 56 acceptability.ti,ab,id. 15051  
 57 feasibility.ti,ab,id. 24554  
 58 workflow\*.ti,ab,id. 1366  
 59 practice pattern\*.ti,ab,id. 869  
 60 39 or 40 or 41 or 42 or 43 or 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 1176040  
 61 8 and 38 and 60 649  
 62 limit 61 to (editorial or letter) 1  
 63 61 not 62 648

<https://ovidsp.ovid.com/ovidweb.cgi?T=JS&NEWS=N&PAGE=main&SHAREDSEARCHID=XVRmw2Ea5jYcsXtah07aKbUEcsYQwRqoq9r8u0XqEdVy2HquOa0DsGS7lSbsCeeu>

## Embase

Embase Classic+Embase <1947 to 2021 June 22>

- 1 exp health care personnel/ 1755236
- 2 ((health\* or care or medical or nursing or surgical) adj2 (personnel or provider\* or professional\* or workforce or employee\* or worker\* or technician\* or practitioner\* or aide\* or officer\* or staff)).ti,kw. 89576
- 3 ((health\* or care or medical or nursing or surgical) adj2 (personnel or provider\* or professional\* or workforce or employee\* or worker\* or technician\* or practitioner\* or aide\* or officer\* or staff)).ab. /freq=2 124467
- 4 clinician\*.tw,kw. 356633
- 5 (physician\* or an?esthetist\* or an?esthesiologist\* or audiologist\* or doula\* or nutritionist\* or dietitian\* or occupational therapist\* or pharmacist\* or physical therapist\* or physiotherapist\* or allergist\* or cardiologist\* or dermatologist\* or endocrinologist\* or gastroenterologist\* or hepatologist\* or general practitioner\* or geriatrician\* or gerontologist\* or gyn?ecologist\* or hospitalist\* or internist\* or nephrologist\* or neurologist\* or obstetrician\* or oncologist\* or ophthalmologist\* or otolaryngologist\* or otologist\* or p?ediatrician\* or neonatologist\* or physiatrist\* or psychiatrist\* or pulmonologist\* or radiologist\* or respirologist\* or rheumatologist\* or surgeon\* or neurosurgeon\* or urologist\* or psychotherapist\*).tw,kw. 1496381
- 6 (physician\* or an?esthetist\* or an?esthesiologist\* or audiologist\* or doula\* or nutritionist\* or dietitian\* or occupational therapist\* or pharmacist\* or physical therapist\* or physiotherapist\* or allergist\* or cardiologist\* or dermatologist\* or endocrinologist\* or gastroenterologist\* or hepatologist\* or general practitioner\* or geriatrician\* or gerontologist\* or gyn?ecologist\* or hospitalist\* or internist\* or nephrologist\* or neurologist\* or obstetrician\* or oncologist\* or ophthalmologist\* or otolaryngologist\* or otologist\* or p?ediatrician\* or neonatologist\* or physiatrist\* or psychiatrist\* or pulmonologist\* or radiologist\* or respirologist\* or rheumatologist\* or surgeon\* or neurosurgeon\* or urologist\* or psychotherapist\*).tw,kw. 1496381
- 7 (emergency medical technician\* or EMT or EMTs or paramedic\*).tw,kw. 51906
- 8 1 or 2 or 3 or 4 or 5 or 6 or 7 2878502
- 9 exp artificial intelligence/ 49320
- 10 exp machine learning/257283
- 11 expert system/ 5546
- 12 fuzzy logic/ 4240
- 13 knowledge base/ 6099
- 14 natural language processing/ 6453
- 15 robotics/ 42276
- 16 ((artificial or computational or machine or ambient) adj3 (intelligence or superintelligence)).tw,kw. 18944
- 17 AI.tw,kw. 43470
- 18 intelligent agent\*.tw,kw. 234
- 19 (text min\* or textmin\*).tw,kw. 3400
- 20 ((computer or automated or machine) adj2 (reasoning or inference\*)).tw,kw. 310
- 21 computer vision system\*.tw,kw. 254
- 22 (multi?criteria decision\* or multiple criteria decision\*).tw,kw. 839
- 23 machine learning.tw,kw. 54995
- 24 deep learning.tw,kw. 22420
- 25 hierarchical learning.tw,kw. 83

26 semi?supervised learning.tw,kw. 140  
 27 support vector\*.tw,kw. 24506  
 28 (heuristic\* or hyperheuristic\* or metaheuristic\*).tw,kw. 14505  
 29 expert system\*.tw,kw. 4515  
 30 fuzzy logic.tw,kw. 2811  
 31 knowledge?base\*.tw,kw. 1428  
 32 natural language processing\*.tw,kw. 5534  
 33 (neural network\* or perceptron\*).tw,kw. 78169  
 34 limit 33 to "therapy (maximizes sensitivity)" 10952  
 35 connectionist model\*.tw,kw. 574  
 36 (robotics or remote operation\* or telerobotic\*).tw,kw. 12609  
 37 segmentation.tw,kw. 56055  
 38 big data.tw,kw. 11001  
 39 limit 38 to "therapy (maximizes sensitivity)" 2512  
 40 (algorithm\* adj4 computer\*).tw,kw. 6508  
 41 ((AI or "computer assisted " or "computer aided" or "computer-assisted " or "computer-aided") adj2 (predict\* or detect\* or diagnos\* or "medical record\*" or "health record\*")).tw,kw. 10736  
 42 (digital pathology or perceptron\* or connectionist or conversational agent\* or chat-bot\* or chatbot\*).tw,kw. 7124  
 43 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 484354  
 44 coping behavior/ 64015  
 45 attitude/ 73929  
 46 attitude to computers/ 3408  
 47 exp health personnel attitude/ 194028  
 48 trust/ 27071  
 49 emotion/ 110258  
 50 anger/ 19424  
 51 fear/ 71564  
 52 anxiety/ 237138  
 53 frustration/ 9611  
 54 hostility/ 11786  
 55 comprehension/ 32470  
 56 perception/ 137267  
 57 perceptive discrimination/ 14519  
 58 workflow/ 27307  
 59 clinical practice/ 309702  
 60 impact.ti,kw. 380248  
 61 adaptability.tw,kw. 15623  
 62 (trust\* or distrust\* or mistrust\*).tw,kw. 88663  
 63 attitude\*.tw,kw. 215383  
 64 (reliant or reliance or dependent or dependence).tw,kw. 2042598  
 65 (emotion or emotions or anger\* or anxiet\* or anxious\* or nervous\* or fear or fears or fearful or frustration\* or hostile or hostility).ti,kw. 290225

66 perception\*.tw,kw. 354844  
67 susceptibility.tw,kw. 371721  
68 interpretability.tw,kw. 4559  
69 acceptability.tw,kw. 53548  
70 feasibility.tw,kw. 283498  
71 workflow\*.tw,kw. 41763  
72 practice pattern\*.tw,kw. 15643  
73 44 or 45 or 46 or 47 or 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59  
or 60 or 61 or 62 or 63 or 64 or 65 or 66 or 67 or 68 or 69 or 70 or 71 or 72 4714508  
74 8 and 43 and 73 10572  
75 limit 74 to "humans only (removes records about animals)" 10416  
76 limit 75 to (editorial or letter) 317  
77 75 not 76 10099  
78 limit 77 to embase 5185

<https://ovidsp.ovid.com/ovidweb.cgi?T=JS&NEWS=N&PAGE=main&SHAREDSEARCHID=6hN3DDjxuNTNhdGal8FtEDIZDUHqOIJekQFWpRWPNliet6fvhz3W8TU9UbFGSTO1t>

## Scopus

(( TITLE  
((( health\* OR care OR medical OR nursing OR surgical ) W/2 ( personnel OR provider  
\* OR professional\* OR workforce OR employee\* OR worker\* OR technician\* OR practi  
tioner\* OR aide\* OR officer\* OR staff ) ) ) ) OR ( TITLE-ABS-KEY  
( clinician\* ) ) OR ( TITLE-ABS-KEY  
( ( physician\* OR anesthetist\* OR anaesthetist\* OR anesthesiologist\* OR anaesthesiologist  
\* OR audiologist\* OR doula\* OR nutritionist\* OR dietitian\* OR "occupational  
therapist\*" OR pharmacist\* OR "physical  
therapist\*" OR physiotherapist\* OR allergist\* OR cardiologist\* OR dermatologist\* OR en  
docrinologist\* OR gastroenterologist\* OR hepatologist\* OR "general  
practitioner\*" OR geriatrician\* OR gerontologist\* OR gynecologist\* OR gynaecologist\* O  
R hospitalist\* OR internist\* OR nephrologist\* OR neurologist\* OR obstetrician\* OR onc  
ologist\* OR ophthalmologist\* OR otolaryngologist\* OR otologist\* OR pediatrician\* OR p  
aediatrician\* OR neonatologist\* OR physiatrist\* OR psychiatrist\* OR pulmonologist\* OR  
radiologist\* OR respirologist\* OR rheumatologist\* OR surgeon\* OR neurosurgeon\* OR u  
rologist\* OR psychotherapist\* ) ) ) OR ( TITLE-ABS-KEY ( nurse\* ) ) OR ( TITLE-ABS-  
KEY ( ( "emergency medical  
technician\*" OR emt OR emts OR paramedic\* ) ) ) ) AND ( ( TITLE-ABS-KEY  
( ( ( artificial OR computational OR machine OR ambient ) W/3 ( intelligence OR superint  
elligence ) ) ) ) OR ( TITLE-ABS-KEY ( ai ) ) OR ( TITLE-ABS-KEY ( "intelligent  
agent\*" ) ) OR ( TITLE-ABS-KEY ( ( "text min\*" OR textmin\* ) ) ) OR ( TITLE-ABS-KEY  
( ( ( computer OR automated OR machine ) W/2 ( reasoning OR inference\* ) ) ) ) OR ( TI  
TLE-ABS-KEY ( "computer vision system\*" ) ) OR ( TITLE-ABS-KEY ( ( "multicriteria  
decision\*" OR "multi-criteria decision\*" OR "multiple criteria decision\*" ) ) ) OR ( TITLE-  
ABS-KEY ( "machine learning" ) ) OR ( TITLE-ABS-KEY ( "deep learning" ) ) OR ( TITLE-  
ABS-KEY ( "hierarchical learning" ) ) OR ( TITLE-ABS-KEY ( "semisupervised

learning" OR "semi-supervised learning" )) OR ( TITLE-ABS-KEY ( "support  
vector\*" )) OR ( TITLE-ABS-KEY  
( ( heuristic\* OR hyperheuristic\* OR metaheuristic\* )) OR ( TITLE-ABS-KEY ( "expert  
system\*" )) OR ( TITLE-ABS-KEY ( "fuzzy logic" )) OR ( TITLE-ABS-KEY  
( "knowledgebase\*" OR "knowledge-base\*" )) OR ( TITLE-ABS-KEY ( "natural language  
processing\*" )) OR ( TITLE-ABS-KEY ( ( "neural  
network\*" OR perceptron\* )) OR ( TITLE-ABS-KEY ( "connectionist  
model\*" )) OR ( TITLE-ABS-KEY ( ( robotics OR "remote  
operation\*" OR telerobotic\* )) OR ( TITLE-ABS-KEY ( segmentation )) OR ( TITLE-  
ABS-KEY ( "big data" )) OR ( TITLE-ABS-KEY  
( ( algorithm\* W/4 computer\* )) OR ( TITLE-ABS-KEY ( ( ( ai OR "computer assisted  
" OR "computer aided" OR "computer-assisted" OR "computer-  
aided" ) W/2 ( predict\* OR detect\* OR diagnos\* OR "medical record\*" OR "health  
record\*" )) )) OR ( TITLE-ABS-KEY ( ( "digital  
pathology" OR perceptron\* OR connectionist OR "conversational agent\*" OR "chat-  
bot\*" OR chatbot\* )) )) AND ( ( TITLE ( impact )) OR ( TITLE-ABS-KEY  
( adaptability )) OR ( TITLE-ABS-KEY  
( ( trust\* OR distrust\* OR mistrust\* )) OR ( TITLE-ABS-KEY  
( attitude\* )) OR ( TITLE-ABS-KEY  
( ( reliant OR reliance OR dependent OR dependence )) OR ( TITLE  
( ( emotion OR emotions OR anger\* OR anxiet\* OR anxious\* OR nervous\* OR fear OR  
fears OR fearful OR frustration\* OR hostile OR hostility )) OR ( TITLE-ABS-KEY  
( perception\* )) OR ( TITLE-ABS-KEY ( susceptibility )) OR ( TITLE-ABS-KEY  
( interpretability )) OR ( TITLE-ABS-KEY ( acceptability )) OR ( TITLE-ABS-KEY  
( feasibility )) OR ( TITLE-ABS-KEY ( workflow\* )) OR ( TITLE-ABS-KEY ( "practice  
pattern\*" )) )) AND ( LIMIT-TO ( SRCTYPE , "j" )) AND ( LIMIT-TO  
( PUBSTAGE , "final" )) AND ( LIMIT-TO ( DOCTYPE , "ar" ))