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Appendix 1: Artificial intelligence search terms

No	Search strategy	Search terms
1	Core lexical query	TS = (“Artificial Intelligen*” or “Neural Net*” or “Machine* Learning” or “Expert System$” or “Natural Language Processing” or “Deep Learning” or “Reinforcement Learning” or “Learning Algorithm$” or “*Supervised Learning” or “Intelligent Agent*”)
2	Expanded lexical query 1	TS = ((“Backpropagation Learning” or “Back-propagation Learning” or “Bp Learning”) or (“Backpropagation Algorithm*” or “Back-propagation Algorithm*”) or “Long Short-term Memory” or ((Pcnn$ not Pcnnt) or “Pulse Coupled Neural Net*”) or “Perceptron$” or (“Neuro-evolution” or Neuroevolution) or “Liquid State Machine*” or “Deep Belief Net*” or (“Radial Basis Function Net*” or Rbfnn* or “Rbf Net*”) or “Deep Net*” or Autoencoder* or “Committee Machine*” or “Training Algorithm$” or (“Backpropagation Net*” or “Back-propagation Net*” or “Bp Network*”) or “Q learning” or “Convolution* Net*” or “Actor-critic Algorithm$” or (“Feedforward Net*” or “Feed-Forward Net*”) or “Hopfield Net*” or Neocognitron* or Xgboost* or “Boltzmann Machine*” or “Activation Function$” or (“Neurodynamic Programming” or “Neuro dynamic Programming”) or “Learning Model*” or (Neurocomputing or “Neuro-Computing”) or “Temporal Difference Learning” or “Echo State* Net*”)
3	Expanded lexical query 2	TS = (“Transfer Learning” or “Gradient Boosting” or “Adversarial Learning” or “Feature Learning” or “Generative Adversarial Net*” or “Representation Learning” or (“Multiagent Learning” or “Multi-agent Learning”) or “Reservoir Computing” or “Co-training” or (“Pac Learning” or “Probabl* Approximate* Correct Learning”) or “Extreme Learning Machine*” or “Ensemble Learning” or “Machine* Intelligen*” or (“Neuro fuzzy” or Neurofuzzy) or “Lazy Learning” or (“Multi* instance Learning” or “Multiinstance Learning”) or (“Multi* task Learning” or “Multitask Learning”) or “Computation* Intelligen*” or “Neural Model*” or (“Multi* label Learning” or “Multilabel Learning”) or “Similarity Learning” or “Statistical Relation* Learning” or “Support* Vector* Regression” or “Manifold Regulari?ation” or “Decision Forest*” or “Generali?ation Error*” or “Transductive Learning” or (Neurorobotic* or “Neuro-robotic*”) or “Inductive Logic Programming” or “Natural Language Understanding” or (Adaboost* or “Adaptive Boosting”) or “Incremental Learning” or “Random Forest*” or “Metric Learning” or “Neural Gas” or “Grammatical Inference” or “Support* Vector* Machine*” or (“Multi* label Classification” or “Multilabel Classification”) or “Conditional Random Field*” or (“Multi* class Classification” or “Multiclass Classification”) or “Mixture Of Expert*” or “Concept* Drift” or “Genetic Programming” or “String Kernel*” or (“Learning To Rank*” or “Machine-learned Ranking”) or “Boosting Algorithm$” or “Robot* Learning” or “Relevance Vector* Machine*” or Connectionis* or (“Multi* Kernel$ Learning” or “Multikernel$ Learning”) or “Graph Learning” or “Naive bayes* Classifi*” or “Rule-based System$” or “Classification Algorithm*” or “Graph* Kernel*” or “Rule* induction” or “Manifold Learning” or “Label Propagation” or “Hypergraph* Learning” or “One class Classifi*” or “Intelligent Algorithm*”)
4	WoS category	WC = (“Artificial Intelligence”)
5	Total	#1 OR #2 OR #3 OR #4

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Appendix 2: AI journals included in the search

1. *Artificial Intelligence Elsevier*
2. *Journal of Machine Learning Research*
3. *Autonomous Agents and Multi-Agent Systems*
4. *IEEE Transactions on Neural Networks and Learning Systems*
5. *Journal of Artificial Intelligence Research*
6. *Machine Learning*
7. *Computational Intelligence*
8. *Expert Systems*
9. *International Journal of Intelligent Systems*
10. *Neurocomputing*
11. *Journal of Experimental and Theoretical Artificial Intelligence*
12. *IEEE Computational Intelligence Magazine*
13. *Artificial Intelligence Review*
14. *Autonomous Robots*
15. *International Journal of Machine Learning and Cybernetics*
16. *ACM Transactions on Intelligent Systems and Technology*
17. *AI Magazine*
18. *Progress in Artificial Intelligence*
19. *Swarm Intelligence*

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Reference

1. Liu N, Shapira P, Yue X. Tracking developments in artificial intelligence research: Constructing and applying a new search strategy. Scientometrics. 2021;126:3153–3192. https://doi.org/10.1007/s11192-021-03868-4