**Table S1. Keyword search in WoS.**

|  |  |  |
| --- | --- | --- |
| **Step** | **Search query** | **Result** |
| #1 | TS=(“artificial intelligen\*” OR “machine intelligen\*” OR “machine learning” OR “data learning” OR “neural network” OR “support vector\*” OR “k-nearest neighbor\*” OR “markov decision” OR “markov chain” OR “markov random field” OR “natural language process” OR “deep learn\*” OR “big data” OR “fuzzy” OR “cluster\*” OR “classifier” OR “classification algorithm” OR “automatic” OR “autonomous” OR “automated” OR “computational intelligence” OR “computer vision” OR “intelligent comput\*” OR “robot\*” OR “intelligent tutor\*” OR “intelligent agent\*” OR “intelligent system\*” OR “expert system\*” OR “voice recognition” OR “speech recognition”) | 3,791,294 |
| #2 | TS=(“speech\* patholog\*” OR “communication disorder\*” OR “speech\* disorder\*” OR “language disorder\*” OR “speech\* impair\*” OR “speech\* therap\*” OR “speech\* assess\*” OR “pathological speech” OR “pathological language” OR “stutter\*” OR “dysarthria” OR “swallow\* disorder\*” OR “voic\* disorder\*” OR “aphasia” OR “speech apraxia” OR (“autis\*” AND (“speech” OR “language”)) OR (“schizophreni\*” AND (“speech” OR “language”)) OR (“brain injur\*” AND (“speech” OR “language”)) OR (“dement\*” AND (“speech” OR “language”))) | 84,644 |
| #3 | #2 AND #1 | 5,870 |
| #4 | #2 AND #1 and Letters or Meeting Abstracts or Corrections or Notes or Books or Book Chapters (Exclude – Document Types) | 5,810 |
| #5 | #2 AND #1 and Letters or Meeting Abstracts or Corrections or Notes or Books (Exclude – Document Types) and English (Languages) | 5,714 |
| #6 | AU=Anonymous | 1,453,335 |
| #7 | #5 NOT #6 | 5,711 |

**Table S2. Keyword search in Scopus.**

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| --- | --- | --- |
| **Step** | **Search query** | **Result** |
| #1 | TITLE-ABS-KEY(“artificial intelligen\*” OR “machine intelligen\*” OR “machine learning” OR “data learning” OR “neural network” OR “support vector\*” OR “k-nearest neighbor\*” OR “markov decision” OR “markov chain” OR “markov random field” OR “natural language process” OR “deep learn\*” OR “big data” OR “fuzzy” OR “cluster\*” OR “classifier” OR “classification algorithm” OR “automatic” OR “autonomous” OR “automated” OR “computational intelligence” OR “computer vision” OR “intelligent comput\*” OR “robot\*” OR “intelligent tutor\*” OR “intelligent agent\*” OR “intelligent system\*” OR “expert system\*” OR “voice recognition” OR “speech recognition”) | 5,927,021 |
| #2 | TITLE-ABS-KEY(“speech\* patholog\*” OR “communication disorder\*” OR “speech\* disorder\*” OR “language disorder\*” OR “speech\* impair\*” OR “speech\* therap\*” OR “speech\* assess\*” OR “pathological speech” OR “pathological language” OR “stutter\*” OR “dysarthria” OR “swallow\* disorder\*” OR “voic\* disorder\*” OR “aphasia” OR “speech apraxia” OR (“autis\*” AND (“speech” OR “language”)) OR (“schizophreni\*” AND (“speech” OR “language”)) OR (“brain injur\*” AND (“speech” OR “language”)) OR (“dement\*” AND (“speech” OR “language”))) | 173,745 |
| #3 | (TITLE-ABS-KEY(“artificial intelligen\*” OR “machine intelligen\*” OR “machine learning” OR “data learning” OR “neural network” OR “support vector\*” OR “k-nearest neighbor\*” OR “markov decision” OR “markov chain” OR “markov random field” OR “natural language process” OR “deep learn\*” OR “big data” OR “fuzzy” OR “cluster\*” OR “classifier” OR “classification algorithm” OR “automatic” OR “autonomous” OR “automated” OR “computational intelligence” OR “computer vision” OR “intelligent comput\*” OR “robot\*” OR “intelligent tutor\*” OR “intelligent agent\*” OR “intelligent system\*” OR “expert system\*” OR “voice recognition” OR “speech recognition”)) AND (TITLE-ABS-KEY(“speech\* patholog\*” OR “communication disorder\*” OR “speech\* disorder\*” OR “language disorder\*” OR “speech\* impair\*” OR “speech\* therap\*” OR “speech\* assess\*” OR “pathological speech” OR “pathological language” OR “stutter\*” OR “dysarthria” OR “swallow\* disorder\*” OR “voic\* disorder\*” OR “aphasia” OR “speech apraxia” OR (“autis\*” AND (“speech” OR “language”)) OR (“schizophreni\*” AND (“speech” OR “language”)) OR (“brain injur\*” AND (“speech” OR “language”)) OR (“dement\*” AND (“speech” OR “language”)))) | 10,298 |
| #4 | (TITLE-ABS-KEY(“artificial intelligen\*” OR “machine intelligen\*” OR “machine learning” OR “data learning” OR “neural network” OR “support vector\*” OR “k-nearest neighbor\*” OR “markov decision” OR “markov chain” OR “markov random field” OR “natural language process” OR “deep learn\*” OR “big data” OR “fuzzy” OR “cluster\*” OR “classifier” OR “classification algorithm” OR “automatic” OR “autonomous” OR “automated” OR “computational intelligence” OR “computer vision” OR “intelligent comput\*” OR “robot\*” OR “intelligent tutor\*” OR “intelligent agent\*” OR “intelligent system\*” OR “expert system\*” OR “voice recognition” OR “speech recognition”)) AND (TITLE-ABS-KEY(“speech\* patholog\*” OR “communication disorder\*” OR “speech\* disorder\*” OR “language disorder\*” OR “speech\* impair\*” OR “speech\* therap\*” OR “speech\* assess\*” OR “pathological speech” OR “pathological language” OR “stutter\*” OR “dysarthria” OR “swallow\* disorder\*” OR “voic\* disorder\*” OR “aphasia” OR “speech apraxia” OR (“autis\*” AND (“speech” OR “language”)) OR (“schizophreni\*” AND (“speech” OR “language”)) OR (“brain injur\*” AND (“speech” OR “language”)) OR (“dement\*” AND (“speech” OR “language”)))) AND (EXCLUDE(DOCTYPE, "cr") OR (EXCLUDE(DOCTYPE, "ch") OR EXCLUDE(DOCTYPE, "no") OR EXCLUDE(DOCTYPE, "le") OR EXCLUDE(DOCTYPE, "bk") OR EXCLUDE(DOCTYPE, "er") OR EXCLUDE(DOCTYPE, "tb")) | 9,694 |
| #5 | (TITLE-ABS-KEY(“artificial intelligen\*” OR “machine intelligen\*” OR “machine learning” OR “data learning” OR “neural network” OR “support vector\*” OR “k-nearest neighbor\*” OR “markov decision” OR “markov chain” OR “markov random field” OR “natural language process” OR “deep learn\*” OR “big data” OR “fuzzy” OR “cluster\*” OR “classifier” OR “classification algorithm” OR “automatic” OR “autonomous” OR “automated” OR “computational intelligence” OR “computer vision” OR “intelligent comput\*” OR “robot\*” OR “intelligent tutor\*” OR “intelligent agent\*” OR “intelligent system\*” OR “expert system\*” OR “voice recognition” OR “speech recognition”)) AND (TITLE-ABS-KEY(“speech\* patholog\*” OR “communication disorder\*” OR “speech\* disorder\*” OR “language disorder\*” OR “speech\* impair\*” OR “speech\* therap\*” OR “speech\* assess\*” OR “pathological speech” OR “pathological language” OR “stutter\*” OR “dysarthria” OR “swallow\* disorder\*” OR “voic\* disorder\*” OR “aphasia” OR “speech apraxia” OR (“autis\*” AND (“speech” OR “language”)) OR (“schizophreni\*” AND (“speech” OR “language”)) OR (“brain injur\*” AND (“speech” OR “language”)) OR (“dement\*” AND (“speech” OR “language”)))) AND (EXCLUDE(DOCTYPE, "cr") OR (EXCLUDE(DOCTYPE, "ch") OR EXCLUDE(DOCTYPE, "no") OR EXCLUDE(DOCTYPE, "le") OR EXCLUDE(DOCTYPE, "bk") OR EXCLUDE(DOCTYPE, "er") OR EXCLUDE(DOCTYPE, "tb")) AND (LIMIT-TO(LANGUAGE, "English")) | 9,324 |
| #6 | (TITLE-ABS-KEY(“artificial intelligen\*” OR “machine intelligen\*” OR “machine learning” OR “data learning” OR “neural network” OR “support vector\*” OR “k-nearest neighbor\*” OR “markov decision” OR “markov chain” OR “markov random field” OR “natural language process” OR “deep learn\*” OR “big data” OR “fuzzy” OR “cluster\*” OR “classifier” OR “classification algorithm” OR “automatic” OR “autonomous” OR “automated” OR “computational intelligence” OR “computer vision” OR “intelligent comput\*” OR “robot\*” OR “intelligent tutor\*” OR “intelligent agent\*” OR “intelligent system\*” OR “expert system\*” OR “voice recognition” OR “speech recognition”)) AND (TITLE-ABS-KEY(“speech\* patholog\*” OR “communication disorder\*” OR “speech\* disorder\*” OR “language disorder\*” OR “speech\* impair\*” OR “speech\* therap\*” OR “speech\* assess\*” OR “pathological speech” OR “pathological language” OR “stutter\*” OR “dysarthria” OR “swallow\* disorder\*” OR “voic\* disorder\*” OR “aphasia” OR “speech apraxia” OR (“autis\*” AND (“speech” OR “language”)) OR (“schizophreni\*” AND (“speech” OR “language”)) OR (“brain injur\*” AND (“speech” OR “language”)) OR (“dement\*” AND (“speech” OR “language”)))) AND (EXCLUDE(DOCTYPE, "cr") OR (EXCLUDE(DOCTYPE, "ch") OR EXCLUDE(DOCTYPE, "no") OR EXCLUDE(DOCTYPE, "le") OR EXCLUDE(DOCTYPE, "bk") OR EXCLUDE(DOCTYPE, "er") OR EXCLUDE(DOCTYPE, "tb")) AND (LIMIT-TO(LANGUAGE, "English")) AND (EXCLUDE(PREFNAMEAUID, "Undefined#Undefined")) | 9,324 |