**Appendix – Search Strategies**

**Librarian Searcher: Beth Blackwood, MSLS; Duke University Medical Center Library & Archives, Duke University School of Medicine**

**Peer Review of Search: Steph Hendren, MLIS, AHIP; Duke University Medical Center Library & Archives, Duke University School of Medicine**

**MEDLINE (via PubMed)
Search date: 10/09/2023**

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| **Concept** | **Strategy** | **Results** |
| #1 Epileptogenic terms | "Epilepsy"[Mesh] OR "Seizures"[Mesh] OR epilepsy[tiab] OR epileptogenic[tiab] OR epileptic[tiab] OR seizure[tiab] or seizures[tiab] | 265,485 |
| #2 Localization | Localization[tiab] OR localized[tiab] OR localize[tiab] OR location[tiab] OR local[tiab] OR locale[tiab] OR localizing[tiab] OR zoned[tiab] OR zone[tiab] OR zones[tiab] or classification[tiab] OR classify[tiab] OR classifies[tiab] OR classified[tiab] OR classifying[tiab] OR classifications[tiab] or focus[tiab] OR foci[tiab] OR focused[tiab] OR focusing[tiab] OR focuses[tiab] | 3,784,836 |
| #3 SEEG | "Electroencephalography"[Mesh] OR "Electrocorticography"[Mesh] OR "Electroencephalography"[tiab] OR SEEG[tiab] OR "stereo-EEG"[tiab] OR Stereoelectroencephalography[tiab] OR "Stereo electroencephalography"[tiab] OR "Stereo-electroencephalography"[tiab] OR "Stereo electroencephalographies"[tiab] OR "Stereo-electroencephalographies"[tiab] OR "subdural EEG"[tiab] OR "subdural-EEG"[tiab] OR "iEEg"[tiab] OR "intracranial EEG"[tiab] OR "intracerebral EEG"[tiab] OR "strip EEG"[tiab] OR "grid EEG"[tiab] OR "ECoG"[tiab] OR "Electrocorticography"[tiab] | 191,590 |
| #4 Machine Learning | "Artificial Intelligence"[Mesh] OR "Machine Learning"[Mesh] OR "Deep Learning"[Mesh] OR AI[tiab] OR "neural nets"[tiab] OR "neural networks"[tiab] OR "neural network"[tiab] OR ((hierarchical[tiab] OR deep[tiab] OR machine[tiab]) AND (learning[tiab])) OR ((artificial[tiab] OR machine[tiab]) AND (intelligence[tiab] OR computation[tiab] OR reasoning[tiab])) OR "convolutional neural network"[tiab] OR CNN[tiab] OR "support vector machine"[tiab] OR "logistic regression"[tiab]  | 754,083 |
| #5 Combined | #1 AND #2 AND #3 AND #4 | 1,142 |
| Validation String | **31465970 OR 36332234 OR 30176615 OR 37633355 OR 29253102 OR 29855436 OR 31705527 OR 36152321** | 8/8 |

**Embase (via Elsevier)
Search date: 10/09/2023**

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| **Concept** | **Strategy** | **Results** |
| #1 Epileptogenic terms | 'epilepsy'/exp OR 'seizure'/exp OR ('epilepsy' OR 'epileptogenic' OR 'epileptic' OR 'seizure' OR 'seizures'):ti,ab | 484,4779 |
| #2 Localization |  'localization'/exp OR ('Localization' OR 'localized' OR 'localize' OR 'location' OR 'local' OR 'locale' OR 'localizing' OR 'zoned' OR 'zone' OR 'zones' or 'classification' OR 'classify' OR 'classifies' OR 'classified' OR 'classifying' OR 'classifications' or 'focus' OR 'foci' OR 'focused' OR 'focusing' OR 'focuses'):ti,ab | 4,985,187 |
| #3 SEEG | 'electroencephalography'/exp OR 'electrocorticography'/exp OR ('Electroencephalography' OR 'SEEG' OR 'stereo-EEG' OR 'Stereoelectroencephalography' OR 'Stereo electroencephalography' OR 'Stereo-electroencephalography' OR 'Stereo electroencephalographies' OR 'Stereo-electroencephalographies' OR 'subdural EEG' OR 'subdural-EEG' OR 'iEEg' OR 'intracranial EEG' OR 'intracerebral EEG' OR 'strip EEG' OR 'grid EEG' OR 'ECoG' OR 'Electrocorticography'):ti,ab | 202,737 |
| #4 Machine Learning | 'artificial intelligence'/exp OR 'machine learning'/exp OR 'deep learning'/exp OR 'artificial neural network'/exp OR ('AI' OR 'neural nets' OR 'neural networks' OR 'neural network' OR 'convolutional neural network' OR 'CNN' OR 'support vector machine' OR 'logistic regression'):ti,ab OR (('hierarchical' OR 'deep' OR 'machine') AND ('learning')) OR (('artificial' OR 'machine') AND ('intelligence' OR 'computation' OR 'reasoning')):ti,ab | 1,147,516 |
| #5 Combined | #1 AND #2 AND #3 AND #4 | 1,473 |
| #6 Limit to Studies | #5 NOT ('editorial'/exp OR [editorial]/lim OR 'letter'/exp OR [letter]/lim OR 'note'/exp OR [note]/lim OR [conference abstract]/lim OR 'conference abstract'/exp OR 'conference abstract'/it) | 1,297 |

**Web of Science (via Clarivate)
Search date: 10/09/2023**

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| **Concept** | **Strategy** | **Results** |
| #1 Epileptogenic terms | TS=("epilepsy" OR "epileptogenic" OR "epileptic" OR "seizure" OR "seizures") | 267,070 |
| #2 Localization | TS=("Localization" OR "localized" OR "localize" OR "location" OR "local" OR "locale" OR "localizing" OR "zoned" OR "zone" OR "zones" OR "classification" OR "classify" OR "classifies" OR "classified" OR "classifying" OR "classifications" OR "focus" OR "foci" OR "focused" OR "focusing" OR "focuses") | 8,586,871 |
| #3 SEEG | TS=("Electroencephalography" OR "SEEG" OR "stereo-EEG" OR "Stereoelectroencephalography" OR "Stereo electroencephalography" OR "Stereo-electroencephalography" OR "Stereo electroencephalographies" OR "Stereo-electroencephalographies" OR "subdural EEG" OR "subdural-EEG" OR "iEEg" OR "intracranial EEG" OR "intracerebral EEG" OR "strip EEG" OR "grid EEG" OR "ECoG" OR "Electrocorticography") | 50,440 |
| #4 Machine Learning | TS=("AI" OR "neural nets" OR "neural networks" OR "neural network" OR (("hierarchical" OR "deep" OR "machine") AND ("learning")) OR (("artificial" OR "machine") AND ("intelligence" OR "computation" OR "reasoning")) OR "convolutional neural network" OR "CNN" OR "support vector machine" OR "logistic regression") | 1,635,016 |
| #5 Combined | #1 AND #2 AND #3 AND #4 | 1,074 |
| #6 Limit to Studies | Filter "Document Types" to "Article" AND "Review Article" | 862 |