

## Appendix A

Search strategy for Embase (Ovid)

1. daily life activity/
2. exp "activity of daily living assessment"/
3. self-care/
4. independent living/
5. locomotion/
6. exp walking/
7. eating/
8. drinking/
9. bath/
10. hygiene/
11. exp personal hygiene/
12. grooming/
13. falling/
14. sleep/ or sleep hygiene/ or night sleep/ or sleep pattern/ or sleep quality/ or sleep time/
15. breathing/
16. food processing/ or cooking/
17. housekeeping/
18. ((daily adj2 activit\*) or ADL or BADL or EADL or IADL).ti,ab,kw.
19. ((independen\* adj3 living) or "aging in place" or "ageing in place" or "age in place" or "community dwelling" or "community-dwelling").ti,ab,kw.
20. ((movement or moving or mobility or gait or (transfer\* adj3 (bed or chair or wheelchair or room or home or house)) or ambulat\* or walk\* or locomotion) and (daily or ADL or BADL or EADL or IADL or independent\*)).ti,ab,kw.
21. (independent\* adj2 mobile).ti,ab,kw.
22. (dress\* not (dress\* adj3 (bandage\* or wound\* or burn\* or surg\*))).ti,ab,kw.
23. (chang\* adj2 (clothing or clothes)).ti,ab,kw.
24. ("self-care" or "self-care" or "self-manage\*" or "self-manage\*").ti,ab,kw.
25. (barthel or frenchay or katz or lawton or rankin or lawton-brody).ti,ab,kw.
26. (grooming or hygiene).ti,ab,kw.
27. ((toilet\* or bath\* or wash\* or shower\*) and (daily or ADL or BADL or EADL or IADL or independent\*)).ti,ab,kw.
28. (((make or making or prepar\*) adj2 (meal\* or dinner\* or lunch\* or breakfast\* or supper\*)) or cook\* or bake or baking).ti,ab,kw.
29. ((domestic or household) adj3 activit\*).ti,ab,kw.
30. (clean\* adj3 (house or home)).ti,ab,kw.
31. ((house adj3 (work or keeping)) or housekeeping or housework).ti,ab,kw.
32. (fall or falls or falling or slip or slips or slipping or trip or trips or tripping).ti,ab,kw.
33. ((sleep\* or breath\* or respirat\* or shop\*) and (daily or ADL or BADL or EADL or IADL or independent\*)).ti,ab,kw.
34. or/1-33
35. artificial intelligence/ or exp machine learning/
36. man machine interaction/
37. monitoring/ or physiologic monitoring/ or ambulatory monitoring/ or personal monitoring/ or patient monitoring/ or home monitoring/ or self-monitoring/
38. robotics/
39. self-help device/

40. wireless communication/
41. sensor/
42. assistive technology/
43. technology/
44. internet/
45. ("artificial intelligen\*" or AI or "neural network\*" or (automat\* adj2 recogni\*) or algorithm\* or bayesian or "machine learning").ti,ab,kw.
46. "active assisted living".ti,ab,kw.
47. robot\*.ti,ab,kw.
48. (assistive adj3 (device\* or technolog\* or "self-help")).ti,ab,kw.
49. "ambient assisted living".ti,ab,kw.
50. "ambient intelligen\*".ti,ab,kw.
51. ((ambient or smart or intelligent) adj2 (environment\* or home\* or house\*)).ti,ab,kw.
52. (intelligent adj2 system\*).ti,ab,kw.
53. ((technolog\* or comput\*) adj5 (ambient or "non-wearable\*" or nonwearable\* or unobtrusiv\* or "non-intrusive" or nonintrusive or pervasive or ubiquitous or "non-contact" or noncontact or smart or intelligen\* or passive)).ti,ab.
54. "information and communication technolog\*".ti,ab,kw.
55. ("home automation" or domotic\*).ti,ab,kw.
56. ("geriatric technolog\*" or gero?technolog\*).ti,ab,kw.
57. ("internet of things" or IoT).ti,ab,kw.
58. "man machine system\*".ti,ab,kw.
59. "digital technolog\*".ti,ab,kw.
60. (monitor\* adj2 (biomedical or medical or personal or home\* or patient\* or health or activit\* or ambulat\* or physiolog\*)).ti,ab,kw.
61. ((sensor or sensors) adj3 (video or inertial or passive or infrared or motion or pressure or sound or floor or radar or vibrat\* or environment\* or ultrasonic or ambient or multimedia)).ti,ab,kw.
62. (supportive adj2 living).ti,ab,kw.
63. "technolog\* device\*".ti,ab,kw.
64. "user computer interface".ti,ab,kw.
65. (wireless adj2 (network or technolog\*)).ti,ab,kw.
66. "self-help device\*".ti,ab,kw.
67. or/35-66
68. (ambient or "non-wearable\*" or nonwearable\* or unobtrusiv\* or "non-intrusive" or nonintrusive or pervasive or ubiquitous or "non-contact" or noncontact or smart or intelligen\* or passive).ti,ab,kw.
69. 34 and 67 and 68
70. limit 69 to (english or french)
71. (exp animal/ or nonhuman/) not exp human/
72. 70 not 71
73. limit 72 to embase