



Network on Privacy-Aware
Audio- and Video-Based
Applications
for Active and Assisted Living

Technical report on available audio and video data sets for AAL applications

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Important note (15 September 2024)

This document presents the datasets available for audio- and video-based AAL applications on a search performed on 15 February 2023. An updated list of datasets can be found at <https://goodbrother.eu/datasets>.

1. Introduction to the GoodBrother COST Action

1.1. About the GoodBrother COST Action

The GoodBrother COST Action (CA19121) is dedicated to enhancing the quality of life for older, impaired, and frail individuals by developing privacy-aware solutions for Active and Assisted Living (AAL). It also raises awareness of the ethical, legal, social, and privacy concerns associated with audio- and video-based monitoring in private spaces.

GoodBrother fosters an interdisciplinary community of researchers and industry partners spanning fields such as computing, engineering, healthcare, law, and sociology. This collaboration includes stakeholders like end users, policymakers, and public service providers, aiming to address the "Big Brother" perception of continuous monitoring. By focusing on privacy and user acceptance, the Action promotes the adoption of these solutions and enhances their market potential.

The Action is organised into five Working Groups (WGs), each with a specific focus:

- WG1: Social Responsibility – Addresses ethical, legal, social, data protection, and privacy issues.
- WG2: Privacy-by-Design – Focuses on integrating privacy considerations into audio and video data processing.
- WG3: Audio- and Video-Based AAL Applications – Develops applications utilising audio and video technologies for AAL.
- WG4: Curated Repository of Software and Data – Maintains a repository of relevant software and datasets.
- WG5: Dissemination and Exploitation – Promotes the dissemination and practical application of research findings.

1.2. About Working Group 4

WG4 serves as a critical resource for researchers in WG2 and WG3, providing them with tools to enhance their developments and data benchmarks needed for validation, which are currently scarce. To achieve this, WG4 fosters collaboration among researchers equipped with the necessary facilities to record and curate datasets. These efforts are further supported by WG1, which establishes guidelines to ensure that data acquisition aligns with ethical and legal standards.

WG4's activities include reviewing existing audio and video benchmarks for AAL applications, organising and sharing curated datasets, and facilitating the development of new privacy-compliant systems by promoting open data, open access publications, and open-source software. Additionally, the group encourages the acquisition of datasets tailored for longitudinal studies or specific applications, adhering to ethical guidelines. By promoting the repository's use within the research community, WG4 contributes to the growth of innovative, privacy-respecting solutions in the field of AAL technologies.

This report, created by WG4, presents a review of currently available audio and video datasets for AAL applications.

2. Search methodology for identifying relevant datasets

To search for datasets, the GoodBrother Action utilised a Natural Language Processing (NLP) toolkit designed to automate systematic, scoping, and rapid reviews¹. Developed by several researchers, including the WG4 Leader of the GoodBrother COST Action, this tool significantly enhances the efficiency of identifying and analysing relevant datasets by automating large portions of the review process. It queries major digital libraries, such as IEEE Xplore, PubMed, MDPI, Elsevier, and Springer, to gather comprehensive information.

The toolkit incorporates advanced features, including synonym recognition, stemming, and lemmatisation, to ensure robust and inclusive searches. It leverages the PRISMA methodology for systematic reviews, streamlining the filtering process to prioritise articles that meet predefined relevance criteria. Outputs include an organised repository of metadata, visualisations of trends, and relationships between articles, offering valuable insights into research focus areas and gaps.

As part of its dissemination efforts, GoodBrother hosted a webinar on 28 October 2021, showcasing this tool's applications in automating systematic and scoping surveys. This session, organised during the OnlineSpeak event (<https://goodbrother.eu/onlinespeak>), highlighted its utility for the research community and reinforced its potential for advancing privacy-aware AAL technologies.

The search process for identifying datasets was meticulously planned and executed using the NLP toolkit and targeted searches across major digital libraries, including IEEE, PubMed, MDPI, Elsevier, and Springer. We employed five specific search phrases—“Video Datasets Assisted Living,” “Assisted Living,” “Video Datasets AAL,” “Audio Datasets Assisted Living,” and “Audio Datasets AAL.” Each library was searched separately using these phrases, and the results were consolidated while removing duplicates through DOI, title, and article link comparison.

To ensure relevance, the NLP tool was applied to filter papers. The tool scanned all potentially relevant articles, narrowing the selection to those explicitly mentioning datasets, software, or code repositories. Each shortlisted article was manually evaluated to establish a detailed mapping of its metadata (e.g., title, authors, publication year) to the datasets referenced. Where available, links to datasets were included, ensuring researchers can access and utilise these resources.

To enhance usability, all identified datasets were categorised using multiple tags:

- **Acquisition Platform:** Environmental, Wearables.
- **Action Focus:** Activity, Behaviour, Cognitive Status, Emotional State, Fall, Gait, Gesture, Motor Status.

¹ Zdravevski, E., Lameski, P., Trajkovik, V., Chorbev, I., Goleva, R., Pombo, N., & Garcia, N. M. (2019). Automation in systematic, scoping and rapid reviews by an NLP toolkit: a case study in enhanced living environments. *Enhanced living environments: algorithms, architectures, platforms, and systems*, 1-18.

- **Location-Space:** Home, Indoor, Outdoor.
- **Problem:** Classification, Identification, Localization, Logging, Monitoring, Recognition, Segmentation.
- **Resources:** Video dataset, Audio dataset, Source code.
- **Type of Action:** Assistance, Detection, Identification, Monitoring, Prevention, Recognition, Rehabilitation.

This systematic approach ensures a robust repository, serving as a valuable resource for researchers in the field of audio and video processing for AAL systems. The tagging system offers a comprehensive starting point for researchers to identify and utilise datasets based on their specific needs, facilitating advancements in privacy-aware AAL technologies.

3. Results of the search

The repository includes **14 audio datasets** (see Annex 1), each with detailed information, such as:

- **Dataset Name:** The title of each dataset.
- **Dataset Link:** A web link to access or download the dataset.
- **Problem:** Challenges addressed, such as classification, logging, segmentation, and recognition.
- **Type of Action:** Categories like "Recognition," "Assistance," and "Detection."

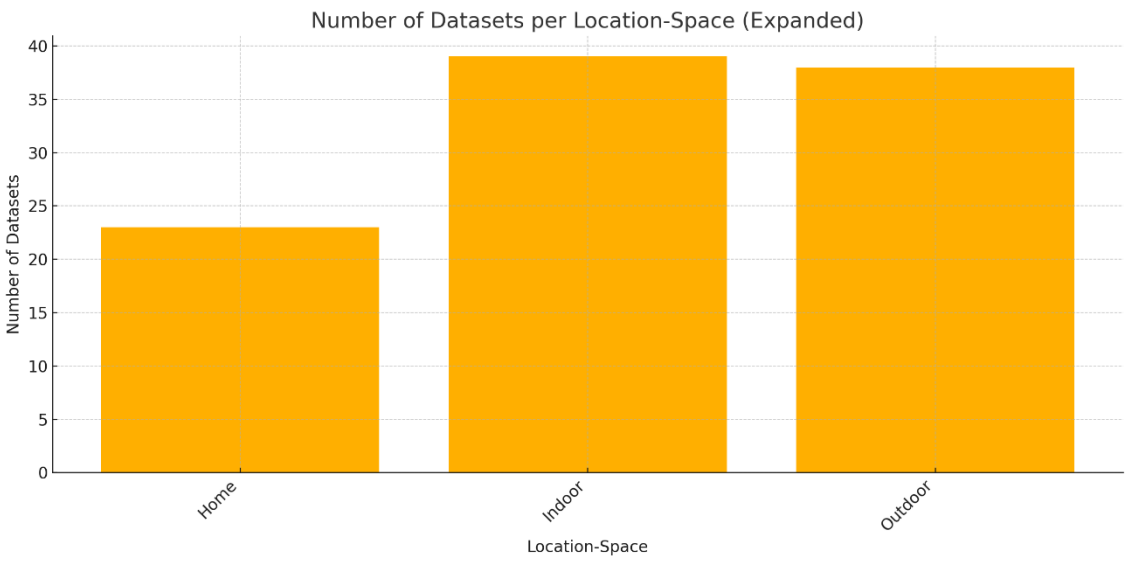
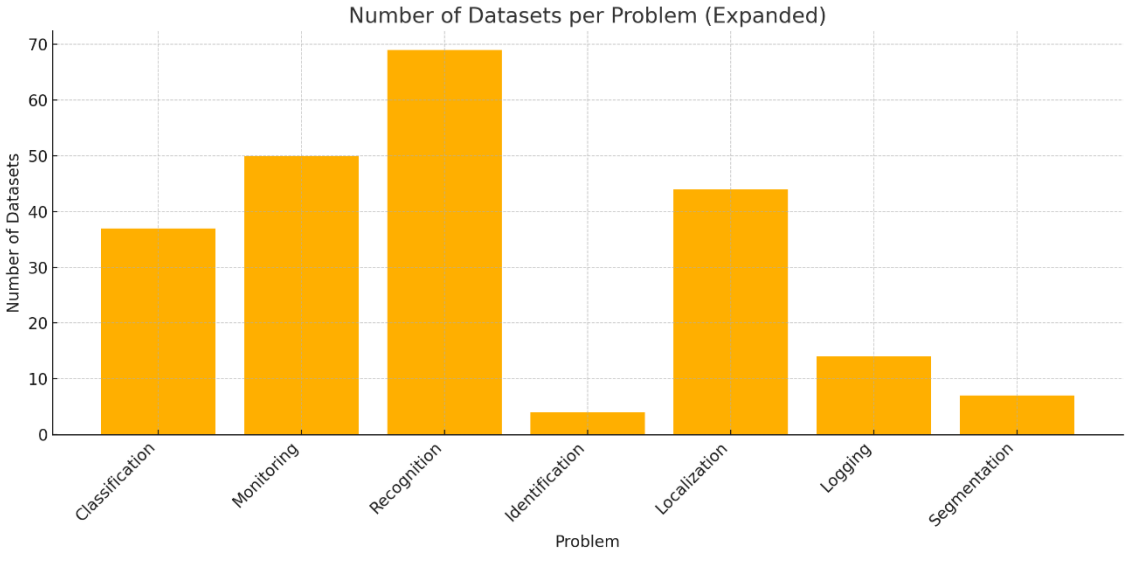
It also contains information on **110 video-related datasets** (see Annex 2), with each entry tagged across several attributes:

- **Dataset Name:** The dataset's identifier.
- **Acquisition Platform:** Methods for data collection, including "Ambiental" and "Wearables."
- **Action Focus:** Covers 14 unique areas, such as "Behaviour," "Gesture," "Fall," and "Cognitive Status."
- **Location-Space:** Five distinct contexts, including "Home," "Indoor," and "Outdoor."
- **Problem:** Addresses 27 unique challenges, such as classification, monitoring, recognition, and segmentation.
- **Type of Action:** Includes 19 types like "Assistance," "Monitoring," "Recognition," "Detection," and "Rehabilitation."

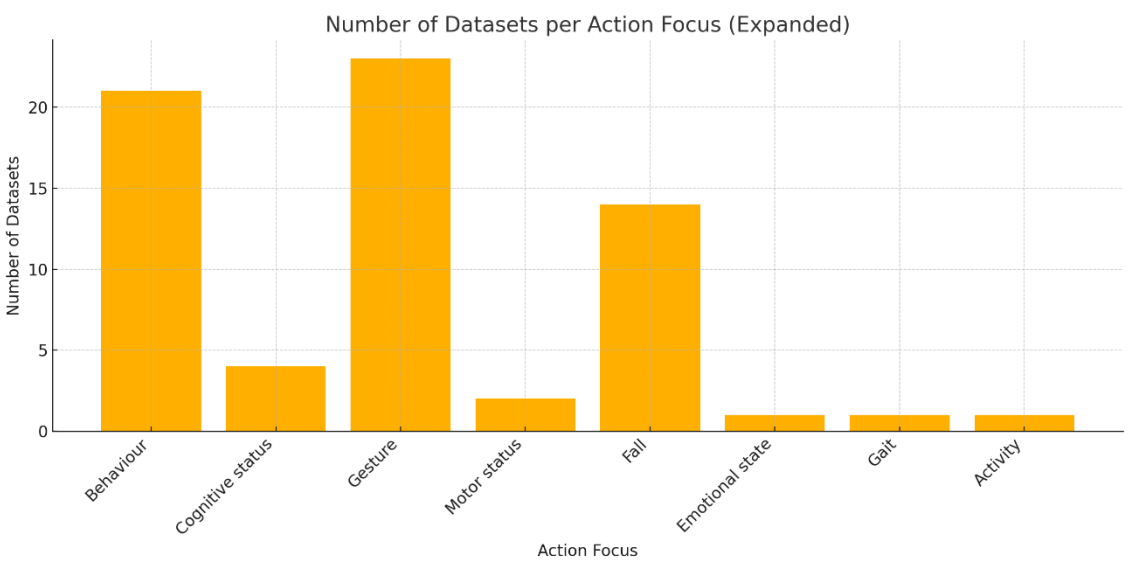
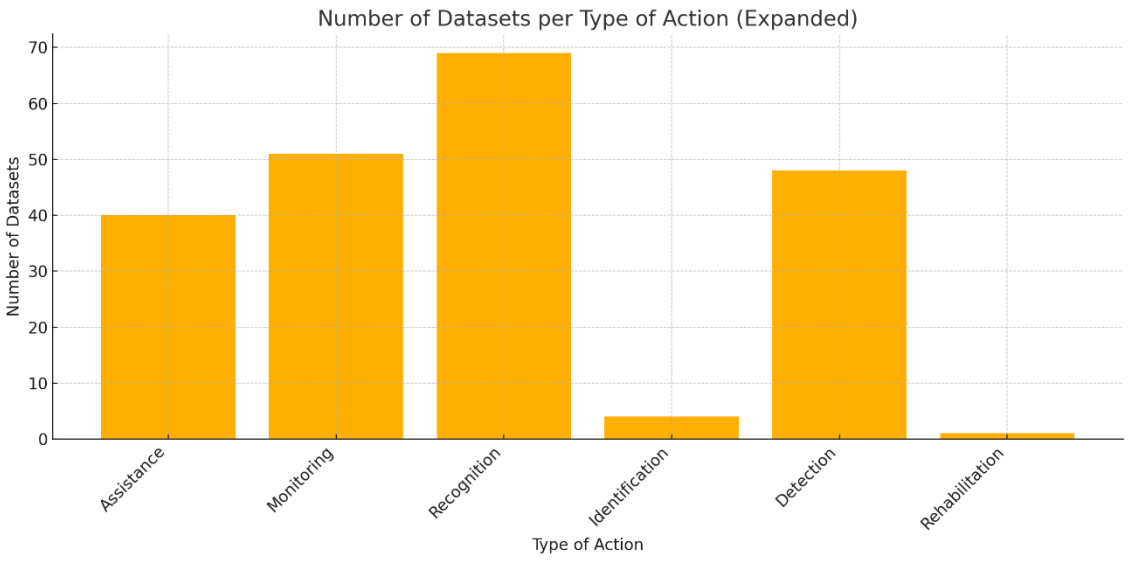
The following charts illustrate the distribution of datasets across various attributes:

1. **Number of datasets per action Focus:** Highlights dataset availability for behaviours like gesture and fall detection.

- 2. **Number of datasets per problem:** Indicates how datasets address issues such as classification and recognition.
- 3. **Number of datasets per location-space:** Shows dataset distribution across environments, including indoor and outdoor.
- 4. **Number of datasets per type of action:** Explores the prevalence of datasets for actions like assistance, monitoring, and detection.



Technical report on available audio and video data sets for AAL applications



Annex 1. Audio datasets for AAL applications

Dataset Name	Dataset Link	Action focus	Problem	Type of action
3DMatch	http://3dmatch.cs.princeton.edu/		Classification, Logging, Segmentation	
Affective Image Classification	http://www.imageemotion.org/	Cognitive status, Emotional state	Recognition	Recognition
Biwi Kinect Head Pose Dataset	https://www.kaggle.com/kmader/biwi-kinect-head-pose-database		Recognition	Assistance, Detection, Recognition
CREMA-D (Crowd-sourced Emotional Multimodal Actors Dataset)	https://github.com/CheyneyComputerScience/CREMA-D	Cognitive status, Emotional state	Classification, Logging, Recognition	Recognition
DECAF dataset	https://decaf-dataset.github.io/	Cognitive status, Emotional state	Recognition	Recognition
Facebook Graph API	https://developers.facebook.com/docs/graph-api			
Global Financial Data's API	https://www.globalfinancialdata.com/			
Intention evaluation dataset	https://github.com/clinc/oos-eval		Recognition	Assistance, Detection, Recognition
MAHNOB Databases	https://mahnob-db.eu/	Cognitive status, Emotional state	Recognition	Recognition
Multimodal Dyadic Behavior (MMDB) dataset	http://cbs.ic.gatech.edu/mmdb/dataset.php	Cognitive status, Emotional state	Recognition	Recognition
Multimodal Opinion Utterances Dataset (MOUD)	https://github.com/A2Zadeh/CMU-MultimodalSDK	Cognitive status, Emotional state	Recognition	Recognition

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Dataset Name	Dataset Link	Action focus	Problem	Type of action
NCEI	https://www.ncdc.noaa.gov/data-access			
Open Corporates	https://opencorporates.com/			
Open Street Map	https://www.openstreetmap.org/			

Annex 2. Video datasets for AAL applications

Dataset Name	Dataset Link	Acquisition Platform	Action focus	Location-Space	Problem	Resources	Type of action
2014 MSRA Hand Tracking Dataset	https://www.dropbox.com/s/t91imzfdaf4i5l/cvpr14_MSRAHandTrackingDB.zip?dl=0				Classification, Localization	Video database	
2015 MSRA Hand Gesture Dataset	https://www.dropbox.com/s/c91xvevra867m6t/cvpr15_MSRAHandGestureDB.zip?dl=0				Classification, Localization	Video database	
A multi-sensory dataset for the activities of daily living	https://data.mendeley.com/datasets/wjbtgdzym/1		Behaviour, Cognitive status		Logging	Video database	
A Testbed for Cross-Dataset Analysis	https://sites.google.com/site/crossdataset/home/files	Ambiental	Gesture	Home, Indoor, Outdoor	Localization, Recognition	Video database	Detection, Recognition
Activity of Daily Living (ADL) dataset	https://www.sciencedirect.com/science/article/pii/S1047320317301967	Ambiental, Wearables		Outdoor	Localization, Segmentation	Video database	
ActivityNet Dataset	http://activity-net.org/download.html	Ambiental			Classification, Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
ADE20K	https://groups.csail.mit.edu/vision/datasets/ADE20K/				Classification, Localization, Recognition	Video database	Recognition
AT&T Database of Faces	https://www.kaggle.com/kasikrit/att-database-of-faces				Localization, Recognition	Video database	Recognition

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Dataset Name	Dataset Link	Acquisition Platform	Action focus	Location-Space	Problem	Resources	Type of action
Auto-WEKA : Sample Datasets	https://www.cs.ubc.ca/labs/beta/Projects/autoweka/datasets/		Gesture, Motor status	Indoor	Identification, Localization, Monitoring, Segmentation	Video database	Assistance, Identification, Monitoring
Berkeley Multimodal Human Action Database (MHAD)	https://tele-immersion.citris-uc.org/berkeley_mhad#dl			Home, Indoor	Recognition	Video database	Detection, Recognition
BUPA Liver Disorder Dataset	https://archive.ics.uci.edu/ml/datasets/liver+disorders		Fall		Localization, Monitoring, Recognition	Video database	Detection, Monitoring, Recognition
Caltech dataset	http://www.vision.caltech.edu/Image_Datasets/Caltech101/#Download			Indoor, Outdoor	Classification, Monitoring	Video database	Detection, Monitoring
Cambridge Gesture Database	ftp://mi.eng.cam.ac.uk/pub/CamGesData/		Gesture	Indoor, Outdoor	Logging	Video database	Assistance
CAVIAR Test Case Scenarios	https://homepages.inf.ed.ac.uk/rbf/CAVIARDATA1/		Behaviour		Localization, Recognition	Video database	Detection, Recognition
CAVIAR: Context Aware Vision using Image-based Active Recognition	https://homepages.inf.ed.ac.uk/rbf/CAVIAR/	Ambiental	Gesture	Home, Indoor, Outdoor	Localization, Recognition	Video database	Detection, Recognition
CAVIAR4REID	https://lorisbaz.github.io/caviar4reid.html	Ambiental		Outdoor	Localization	Video database	
CIFAR-100	https://github.com/keras-team/keras/tree/master/keras/datasets	Ambiental	Fall		Classification, Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
CMU Graphics Lab Motion Capture Database	http://mocap.cs.cmu.edu/		Behaviour		Localization, Recognition	Video database	Detection, Recognition

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Dataset Name	Dataset Link	Acquisition Platform	Action focus	Location-Space	Problem	Resources	Type of action
Columbia consumer video (CCV) dataset	https://www.ee.columbia.edu/ln/dvm/m/CCV/				Classification, Recognition	Video database	Detection, Recognition
Cornell Activity dataset 120	https://www.re3data.org/repository/r3d100012216		Behaviour, Gesture		Recognition, Segmentation	Video database	Detection, Recognition
Cornell University Vision and Analysis Group Public Image Databases	http://www.via.cornell.edu/visionx/sjmba/			Indoor	Classification	Video database	
CREMA-D (Crowd-sourced Emotional Multimodal Actors Dataset)	https://github.com/CheyneyComputerScience/CREMA-D		Cognitive status, Emotional state		Classification, Logging, Recognition	Audio database, Video database	Recognition
CSAILVision	https://github.com/CSAILVision/ADE20K				Classification, Localization, Recognition	Video database	Recognition
CUHK Person Re-identification Datasets	http://www.ee.cuhk.edu.hk/~xgwang/CUHK_identification.html	Ambiental	Gesture	Home, Indoor, Outdoor	Localization, Recognition	Video database	Detection, Recognition
Dataset for "Statistics and Social Network of YouTube Videos"	https://netsg.cs.sfu.ca/youtubedata/	Ambiental		Outdoor		Video database	
Dem@Care Datasets	https://demcare.eu/datasets/			Home, Indoor	Classification, Monitoring, Recognition	Video database	Assistance, Detection, Monitoring, Recognition
ETHZ1	https://www.eth3d.net/datasets	Ambiental		Outdoor	Localization	Video database	

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Dataset Name	Dataset Link	Acquisition Platform	Action focus	Location-Space	Problem	Resources	Type of action
Facebook Graph API	https://developers.facebook.com/docs/graph-api					Audio database, Video database	
FaceScrub Dataset	http://vintage.winklerbros.net/facescrub.html				Localization, Recognition	Video database	Recognition
food dataset	http://foodcam.mobi/dataset.html	Ambiental, Wearables	Fall, Behaviour, Gesture	Home, Indoor, Outdoor	Localization, Monitoring, Recognition	Video database	Assistance, Detection, Monitoring, Recognition
G3D	http://velastin.dynu.com/G3D/G3D.html			Home, Indoor	Monitoring, Recognition	Video database	Monitoring, Recognition
Gesture3D Dataset	https://wangjiangb.github.io/my_data.html		Gesture		Classification, Recognition	Video database	Assistance, Recognition
Global Financial Data's API	https://www.globalfinancialdata.com/					Audio database, Video database	
H3D Honda 3D	https://usa.honda-ri.com/H3D#Videos		Behaviour			Video database	Assistance
HDA Person Dataset	https://vislab.isr.tecnico.ulisboa.pt/hda-dataset/	Ambiental	Gesture	Home, Indoor, Outdoor	Localization, Recognition	Video database	Detection, Recognition
High quality fall simulation dataset	https://www.kuleuven.be/a		Fall		Localization	Video database	Detection

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Dataset Name	Dataset Link	Acquisition Platform	Action focus	Location-Space	Problem	Resources	Type of action
HMDB: a large human motion database	https://serre-lab.clps.brown.edu/resource/hmdb-a-large-human-motion-database/	Ambiental	Behaviour		Classification, Identification, Monitoring, Recognition, Segmentation	Video database	Assistance, Detection, Identification, Monitoring, Recognition
HockeyFights	https://www.kaggle.com/frendon/hockeyfight		Behaviour	Indoor, Outdoor	Classification, Monitoring, Recognition	Video database	Detection, Monitoring, Recognition
HOLLYWOOD2 Human Actions and Scenes Dataset	https://www.di.ens.fr/~laptev/actions/hollywood2/	Ambiental	Behaviour	Outdoor	Localization, Recognition	Video database	Assistance, Detection, Recognition
IDIAP Two-Handed Gesture Dataset	https://www.idiap.ch/resource/twohanded/		Gesture	Indoor, Outdoor	Logging	Video database	Assistance
ImageNet dataset	https://www.image-net.org/download.php	Ambiental	Fall	Home, Indoor, Outdoor	Localization, Monitoring, Recognition	Video database	Detection, Monitoring, Recognition
Inria Aerial Image Labeling Dataset	https://project.inria.fr/aerialimagelabeling/			Indoor, Outdoor	Classification, Monitoring	Video database	Detection, Monitoring
Intelligent Biometric Group Hand Tracking (IBGHT) Database	https://ee.eng.usm.my/IBG/index.php/ms/downloads		Gesture	Indoor, Outdoor	Logging	Video database	Assistance
IXMAS dataset	https://www.epfl.ch/labs/cvlab/data/data-ixmas10/	Ambiental		Indoor, Outdoor	Classification, Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
KDD Cup 1999 Data	http://kdd.ics.uci.edu/databases/kddcup99/kddcup99.html	Ambiental		Outdoor	Monitoring	Video database	Assistance, Detection, Monitoring

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Dataset Name	Dataset Link	Acquisition Platform	Action focus	Location-Space	Problem	Resources	Type of action
Kitchen Scene Context based Gesture Recognition	https://www.murase.m.is.nagoya-u.ac.jp/KSCGR/index.html		Gesture	Home, Indoor, Outdoor	Localization, Monitoring, Recognition	Video database	Monitoring, Recognition
Kodak consumer video dataset	https://www.ee.columbia.edu/ln/dvm/consumervideo/				Classification, Recognition	Video database	Detection, Recognition
KTH Action dataset	https://www.csc.kth.se/cvap/actions	Ambiental	Behaviour, Gesture	Indoor	Classification, Localization, Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
Le2i fall detection dataset	http://le2i.cnrs.fr/Fall-detection-Dataset?lang=fr		Fall		Localization	Video database	Detection
Linked Open Data	https://datahub.io/collections/linked-open-data			Indoor, Outdoor	Monitoring	Video database	Monitoring
LIRIS Dataset	https://projet.liris.cnrs.fr/voir/activites-dataset/		Behaviour		Localization, Logging, Recognition	Video database	Detection, Monitoring
List of RGBD datasets	http://www.michaelfirman.co.uk/RGBDdatasets/	Ambiental	Behaviour	Indoor, Outdoor	Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
Massey Gesture Database	http://www.idiap.ch/resource/gestures/		Gesture	Indoor, Outdoor	Logging	Video database	Assistance
Microsoft COCO visual object detection dataset	https://cocodataset.org/#download				Classification, Localization, Recognition	Video database	Recognition
Microsoft Research Cambridge-12 (MSRC-12)	https://www.microsoft.com/en-us/download/details.aspx?id=52283			Home, Indoor	Monitoring, Recognition	Video database	Monitoring, Recognition

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Dataset Name	Dataset Link	Acquisition Platform	Action focus	Location-Space	Problem	Resources	Type of action
MILtrack dataset	https://bbabenko.github.io/miltrack.html				Monitoring	Video database	Monitoring
Mobio dataset	https://www.idiap.ch/en/dataset/mobio		Fall		Monitoring	Video database	Detection, Monitoring
MS MARCO	https://microsoft.github.io/msmarco/		Fall		Localization, Monitoring, Recognition	Video database	Detection, Monitoring, Recognition
MSR Action 3D	https://wangjiangb.github.io/my_data.html		Cognitive status	Home, Indoor	Classification, Recognition	Video database	Assistance, Recognition
MSR Action3D	https://sites.google.com/view/wanqingli/data-sets/msr-action3d		Gesture		Recognition	Video database	Detection, Recognition
MSR DailyActivity 3D Dataset	https://wangjiangb.github.io/my_data.html		Gesture		Classification, Recognition	Video database	Assistance, Recognition
MSR2 action dataset	https://www.microsoft.com/en-us/download/details.aspx?id=52315				Logging, Monitoring	Video database	Detection, Monitoring
MSRC-12 dataset	https://paperswithcode.com/dataset/msrc-12		Behaviour, Gesture		Recognition, Segmentation	Video database	Detection, Recognition
MSRDailyActivity3D	https://sites.google.com/view/wanqingli/data-sets/msr-dailyactivity3d				Monitoring, Recognition	Video database	Monitoring, Recognition
MSTAR dataset	https://www.sdms.afrl.af.mil/index.php?collection=registration	Ambiental		Outdoor	Monitoring	Video database	Assistance, Detection, Monitoring
MuHAVi: Multicamera Human Action Video Data	http://dipersec.king.ac.uk/MuHAVI-MAS/	Ambiental		Outdoor	Logging, Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
Multiple cameras fall dataset	http://www.iro.umontreal.ca/~labimage/Dataset/		Fall		Localization, Monitoring	Video database	Assistance, Detection, Monitoring

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Dataset Name	Dataset Link	Acquisition Platform	Action focus	Location-Space	Problem	Resources	Type of action
Multiple datasets	http://kahlan.eps.surrey.ac.uk/	Ambiental		Outdoor	Logging, Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
Multiple Object Tracking Benchmark	http://research.milanton.de/data/	Ambiental	Gesture	Home, Indoor, Outdoor	Localization, Recognition	Video database	Detection, Recognition
MV-CVC	http://www.cvc.uab.es/?page_id=232				Localization, Monitoring, Recognition	Video database	Assistance, Detection, Monitoring, Recognition
NCEI	https://www.ncdc.noaa.gov/data-access					Audio database, Video database	
NTU RGB+D Dataset and NTU RGB+D 120 Dataset	https://rose1.ntu.edu.sg/dataset/actionRecognition/				Classification, Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
NTU RGB+D: A Large Scale Dataset for 3D Human Activity Analysis	https://arxiv.org/abs/1604.02808			Home, Indoor	Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
Open Corporates	https://opencorporates.com/					Audio database, Video database	
Open Street Map	https://www.openstreetmap.org/					Audio database, Video database	

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Dataset Name	Dataset Link	Acquisition Platform	Action focus	Location-Space	Problem	Resources	Type of action
OPPORTUNITY Activity Recognition Data Set	https://archive.ics.uci.edu/ml/datasets/OPPORTUNITY+Activity+Recognition		Gait		Recognition, Segmentation	Video database	Detection, Recognition
Pascal VOC 2009	https://academictorrents.com/details/e2209d95a13d364aad0811eacbf391a10c37d963			Home, Indoor	Recognition, Segmentation	Video database	Recognition
PETS	http://www.cvg.reading.ac.uk/PETS2009/	Ambiental	Gesture	Home, Indoor, Outdoor	Localization, Recognition	Video database	Detection, Recognition
Places dataset	http://places2.csail.mit.edu/download.html				Classification, Localization, Recognition	Video database	Recognition
PRAXIS GESTURE DATASET	https://team.inria.fr/stars/en/praxis-dataset/		Cognitive status, Gesture		Recognition	Video database	Detection, Recognition
PRECIS HAR	https://ieee-dataport.org/open-access/precis-har		Activity		Classification, Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
RVL-SLLL American Sign Language Database	https://engineering.purdue.edu/RVL/Database/ASL/asl-database-front.htm		Gesture	Indoor, Outdoor	Logging	Video database	Assistance
SDU fall dataset	https://figshare.com/articles/dataset/SDU_dataset/7166453		Fall	Home, Indoor		Video database	Detection
SHRP2 Naturalistic Driving Study	https://insight.shrp2nds.us/		Motor status			Video database	Rehabilitation
SJTU	https://qualinet.github.io/databases/video/sjtu_4k_video_sequence_dataset/				Localization	Video database	Assistance, Detection

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Dataset Name	Dataset Link	Acquisition Platform	Action focus	Location-Space	Problem	Resources	Type of action
Sports-1M Dataset	https://github.com/gtoderici/sports-1m-dataset/blob/wiki/ProjectHome.md	Ambiental			Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
static_sun_database	http://labelme.csail.mit.edu/Release3.0/Images/users/antonio/static_sun_database/	Ambiental	Gesture	Home, Indoor, Outdoor	Localization, Recognition	Video database	Detection, Recognition
SYSU dataset	https://drive.google.com/drive/folders/1c7kh7feE2Cxuah6di69D9xmoFz4hz_P?usp=sharing				Classification, Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
SYSU MM01	http://pan.baidu.com/s/1gfilcmZ				Classification, Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
SYSU RGB-IR Re-ID	https://www.dropbox.com/sh/v036mg1q4yg7awb/AABhxU-FJ4X2oyq7-Ts6bgD0a?dl=0				Classification, Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
The CIFAR-10 dataset	https://www.cs.toronto.edu/~kriz/cifar.html		Fall		Classification, Localization, Monitoring	Video database	Assistance, Monitoring, Recognition
The ReadingAct dataset	http://www.cvg.reading.ac.uk/			Home, Indoor	Localization, Monitoring, Recognition	Video database	Monitoring, Recognition
The SWELL Knowledge Work Dataset for Stress and User Modeling Research	http://cs.ru.nl/~skoldijk/SWELL-KW/Dataset.html	Ambiental, Wearables			Logging	Video database	Assistance
The Synthia Dataset	https://synthia-dataset.net/downloads/	Ambiental	Behaviour, Fall	Home, Indoor, Outdoor		Video database	Detection

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Dataset Name	Dataset Link	Acquisition Platform	Action focus	Location-Space	Problem	Resources	Type of action
Three-Dimensional Scan Strategies – Process Monitoring Data	https://www.nist.gov/el/ammt-temps/datasets	Ambiental, Wearables		Home, Indoor, Outdoor	Classification, Identification, Localization, Monitoring	Video database	Identification, Monitoring
TRECVID datasets	https://trecvid.nist.gov/trecvid.data.html	Ambiental		Outdoor	Recognition	Video database	Assistance, Recognition
TRECVID MED dataset	https://trecvid.nist.gov/past.data.table.html				Classification, Recognition	Video database	Detection, Recognition
UCF Sport Dataset	https://www.crcv.ucf.edu/data/UCF_Sports_Action.php		Behaviour		Classification, Localization, Monitoring, Recognition	Video database	Detection, Monitoring, Recognition
UCF YouTube Action Dataset	https://www.crcv.ucf.edu/data/UCF_YouTube_Action.php				Classification, Localization, Monitoring, Recognition	Video database	Assistance, Monitoring, Recognition
UCF101 - Action Recognition Data Set	https://www.crcv.ucf.edu/data/UCF101.php	Ambiental	Behaviour		Classification, Identification, Monitoring, Recognition	Video database	Assistance, Detection, Identification, Monitoring, Recognition
UCSD	https://www.kaggle.com/ranakrc/smart-building-system		Behaviour	Indoor, Outdoor	Classification, Monitoring, Recognition	Video database	Detection, Monitoring, Recognition
UIUC dataset (Human Activity Recognition with Metric Learning)	https://vision.cs.uiuc.edu/projects/activity/				Classification, Monitoring, Recognition	Video database	Monitoring, Recognition

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Dataset Name	Dataset Link	Acquisition Platform	Action focus	Location-Space	Problem	Resources	Type of action
Unconstrained Ear Recognition Challenge 2019	http://awe.fri.uni-lj.si/uerc/		Fall		Classification, Monitoring	Video database	Assistance, Monitoring
University of Rochester Activities of Daily Living Dataset	https://www.cs.rochester.edu/u/rmesing/uradl/	Ambiental	Behaviour	Home, Indoor, Outdoor	Localization, Logging, Monitoring, Recognition	Video database	Detection, Monitoring, Recognition
UR Fall Detection Dataset	http://fenix.univ.rzeszow.pl/mkepski/ds/uf.html	Ambiental, Wearables	Fall, Behaviour, Gesture	Home, Indoor, Outdoor	Localization, Monitoring, Recognition	Video database	Assistance, Detection, Monitoring, Recognition
UT interaction dataset	https://cvrc.ece.utexas.edu/SDHA2010/Human_Interaction.html				Logging, Monitoring	Video database	Detection, Monitoring
UTD Multimodal Human Action Dataset (UTD-MHAD)	https://personal.utdallas.edu/~kehtar/UTD-MHAD.html				Localization, Monitoring, Recognition	Video database	Monitoring, Recognition
ViolentFlows	https://www.kaggle.com/frendon/violentflows		Behaviour	Indoor, Outdoor	Classification, Monitoring, Recognition	Video database	Detection, Monitoring, Recognition
Visual PERception (VIPER)	https://paperswithcode.com/dataset/visual-perception-viper	Ambiental		Outdoor	Localization	Video database	
YouTube Action Dataset	http://www.cs.ucf.edu/~liujg/YouTube_Action_dataset.html		Behaviour		Localization, Recognition	Video database	Detection, Recognition