Dataset: EGOFALLS

General Information

This dataset derives from Xueyi Wang's Ph.D. thesis on "Fall Detection by Egocentric Vision."

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Date of data collection: From 2018 to 2022

Location: Groningen, Netherlands

Equipment: Cameras: OnReal G1 (RGB), CAMMHD Bodycams (RGB and Infrared)

Number of subjects: 14 (12 male and 2 female)

Age: 20-60

Location of the camera: Neck and Waist

Environment: Indoor and outdoor

Keywords: Fall detection, multi-modality of vision-audio.

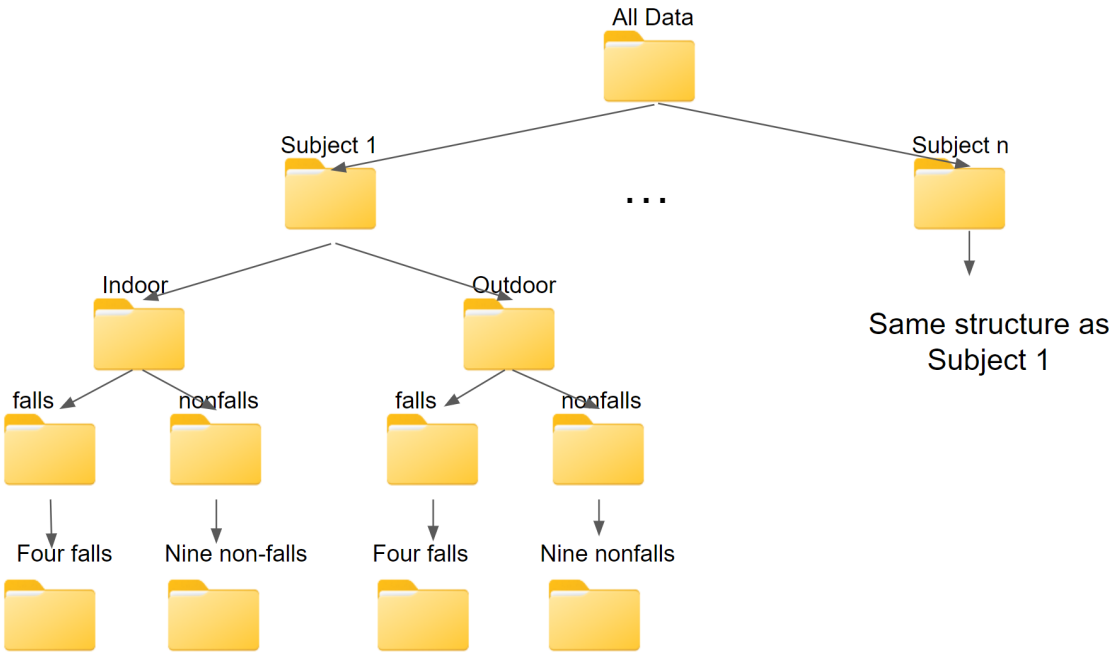
Data and File Overview

Quantity and type of video clips per participant., where C1 and C2 refer to camera 1 and camera 2, and, 0 means that there is no collection for such activities.

Data	ID	All	camera/time	Non-Falls	Falls	Indoor	Outdoor	Waist	Neck
P1	S_H	1096	C1-RGB/daytime	328	768	554	542	548	548
P2	S_M	938	C1-RGB/daytime	426	512	562	376	469	469
P3	S_R	1630	C1-RGB/daytime	680	950	812	818	815	815
P4	S_W	1298	C1-RGB/daytime	536	762	586	712	649	649
P5	S_XL	896	C1-RGB/daytime	444	452	374	522	448	448
P6	S_Q	658	C1-RGB/daytime	498	160	346	312	329	329
P7	S_FI	208	C1-RGB/daytime	136	72	116	92	104	104
P8	S_HB	490	C1-RGB/daytime	316	174	278	212	245	245
P9	S_F	142	C1-RGB/daytime	142	0	142	0	71	71
P10	S_JF	148	C1-RGB/daytime	148	0	148	0	74	74
P11	S_L	380	C1-RGB/daytime	217	163	248	132	190	190
P12	S_D_W	446	C1-RGB/night	318	128	246	200	223	223
P13	S_D_WD	394	C1-RGB/night	264	130	186	208	197	197
P14	S_I_R	500	C2-Infra/night	500	0	196	304	250	250
P15	S_I_W	454	C2-Infra/night	336	118	230	224	227	227
P16	S_I_ZJ	628	C2-Infra/night	444	184	316	312	314	314
P17	S_I_CZ	642	C2-Infra/night	478	164	322	320	321	321
All	**All**	**10948**	**All**	**7177**	**3771**	**5628**	**5320**	**5474**	**5474**

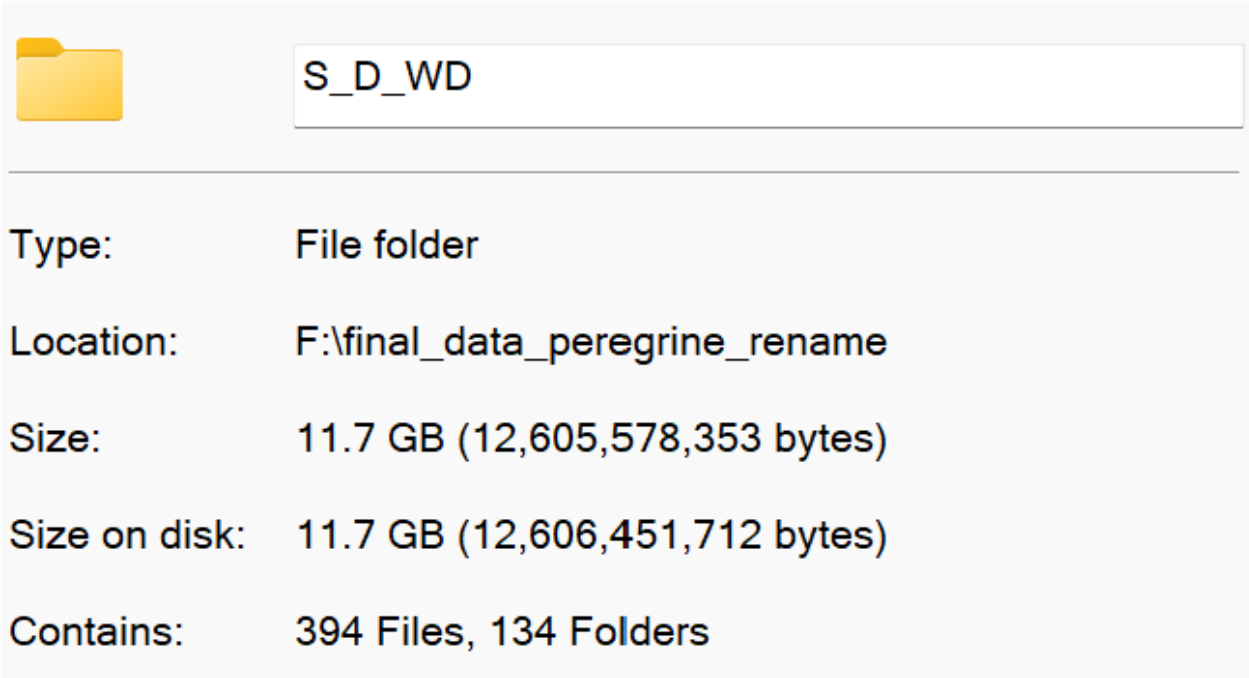
The primary dataset is archived within individual directories corresponding to each respective subject, as exemplified below:

Concurrently, the entirety of the data is meticulously preserved within a hierarchical framework, adhering to the subsequent arrangement:

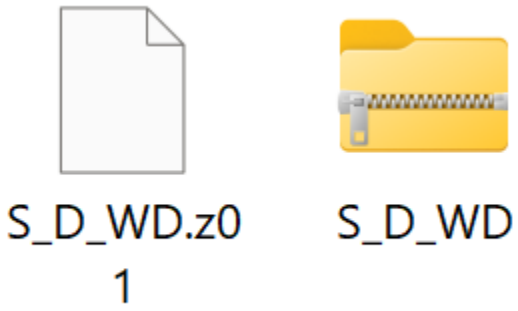


The data emanating from each distinct subject is partitioned into more manageable files, each not exceeding 8 GB in size, owing to the constrained upload threshold enforced by the data repository, DataveseNL.

For example for data from S_D_WD:



Then we will have two zip files like the following:



Upon selecting any singular file within the compressed archive containing data pertinent to this specific subject, it is feasible to execute a right-click operation, subsequently triggering an automated extraction process encompassing all associated files within said subject's dataset.