

The instruction of MMRGait-1.0 dataset

Radar Time-frequency Spectrogram Dataset for Gait Recognition Under Multi-view and Multi-wearing Conditions (MMRGait-1.0) is a micro-Doppler dataset of human gait collected by a millimeter wave radar. The dataset fills the vacancy of the radar gait recognition data set based on retrieval tasks, aiming to promote the development of radar in the field of gait recognition. The dataset was constructed and released by Lan Du's team from National Key Laboratory of Radar Signal Processing, Xidian University. Radar Time-frequency Spectrogram Dataset for Gait Recognition Under Multi-view and Multi-wearing Conditions (MMRGait-1.0) belongs to Du Lan's team from National Key Laboratory of Radar Signal Processing, Xidian University. The editorial department of the Journal of Radars has the right to edit and publish.

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[1] 杜兰, 陈晓阳, 石钰, 等. MMRGait-1.0: 多视角多穿着条件下的雷达时频谱图步态识别数据集[J]. 雷达学报, 待出版. doi: 10.12000/JR22227

[2] DU Lan, CHEN Xiaoyang, SHI Yu, et al. MMRGait-1.0: A radar time-frequency spectrogram dataset for gait recognition under multi-view and multi-wearing conditions[J]. Journal of Radars, in press. doi: 10.12000/JR22227

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The radar Settings, acquisition scenes, and signal processing flow of the MMRGait-1.0 dataset can be referred to the paper "MMRGait-1.0: A radar time-frequency spectrogram dataset for gait recognition under multi-view and multi-wearing conditions". The dataset contains two forms of data — matrix and picture. The naming format is AAA-BB-CC-DDD. AAA represents the ID of the subject, with a value range of 001 ~ 121. BB represents wearing conditions, including NM (normal), BG (carrying bag) and CT (wearing coat). CC indicates the number of data groups. Specifically, we have collected 6 sets of data under NM conditions: NM01-NM06, 2 sets of data under BG conditions: BG01-BG02 and 2 sets of data under CT conditions: CT01-CT02. DDD represents the view of walking, which

contains 000, 030, 045, 060, 090, 300, 315, and 330, respectively. Taking the data in matrix format as an example, the specific data set structure is shown in Figure 1.

The dataset settings of gait recognition experiments based on retrieval tasks can be referred to Table 1, and the detailed experimental details can be found in the paper "MMRGait-1.0: A Radar Time-frequency Spectrogram Dataset for Gait Recognition under Multi-view and Multi-wearing Conditions".

This website: <https://radars.ac.cn/article/doi/10.12000/JR22227>

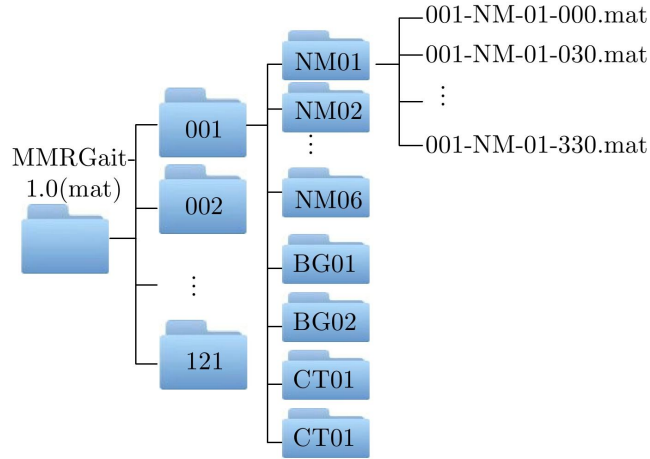


Fig. 1 Structure of the MMRGait-1.0 dataset

Tab. 1 The settings of the MMRGait-1.0 dataset

Dataset		Subject ID	Wearing Condition
Training set	/	001—074	NM-01—NM-06、BG-01s—BG-02、CT-01—CT-02
Test set	Probe	075—121	NM-05—NM-06、BG-01—BG-02、CT-01—CT-02
	Gallery	075—121	NM-01—NM-04