HARVARD
Dataverse

🔍 　　关于　　User Guide　　支持　　注册　　登录

Karol Piczak Dataverse (Warsaw University of Technology)

Harvard Dataverse ＞ Karol Piczak Dataverse ＞ **ESC: Dataset for Environmental Sound Classification**

📊 **9,963 Downloads**
Metrics

✉ Contact　　⤴ Share

📄 **ESC: Dataset for Environmental Sound Classification** | Version 2.0 |

Karol J. Piczak, 2015, "ESC: Dataset for Environmental Sound Classification", doi:10.7910/DVN/YDEPUT, Harvard Dataverse, V2

🛈 Learn about Data Citation Standards.

☰ 下载引用 ▾

| Description | The **ESC dataset** is a collection of short environmental recordings available in a unified format (5-second-long clips, 44.1 kHz, single channel, Ogg Vorbis compressed @ 192 kbit/s). All clips have been extracted from public field recordings available through the Freesound.org project. Please see the README files for a detailed attribution list. The dataset is available under the terms of the Creative Commons license - Attribution-NonCommercial. |

The dataset consists of three parts:

- **ESC-50**: a labeled set of 2 000 environmental recordings (50 classes, 40 clips per class),
- **ESC-10**: a labeled set of 400 environmental recordings (10 classes, 40 clips per class) (this is a subset of ESC-50 - created initialy as a proof-of-concept/standardized selection of easy recordings),
- **ESC-US**: an unlabeled dataset of 250 000 environmental recordings (5-second-long clips), suitable for unsupervised pre-training.

The ESC-US dataset, although not hand-annotated, includes the labels (tags) submitted by the original uploading users, which could be potentially used for weakly-supervised learning (noisy and/or missing labels). The ESC-10 and ESC-50 datasets have been prearranged into 5 uniformly sized folds so that clips extracted from the same original source recording are always contained in a single fold.

The labeled datasets are also available as GitHub projects: ESC-50 | ESC-10.

For a more thorough description and analysis, please see the original paper and the supplementary IPython notebook.

The goal of this project is to facilitate open research initiatives in the field of environmental sound classification as publicly available datasets in this domain are still quite scarce.

Acknowledgments
I would like to thank Frederic Font Corbera for his help in using the Freesound API.

Subject	Computer and Information Science
Keyword	environmental sound, classification, dataset
Notes	Notes

| 文件 | 元数据 | 许可+条款 | 版本 |

Search this dataset...　　🔍 Find

28 Files

☐

💬 Feedback

HARVARD Dataverse

🔍   关于   User Guide   支持   注册   登录

ESC-10.zip
ZIP Archive - 45.0 MB - May 1, 2015 - 358 Downloads
MD5: 60228eeed7226a083ab7c7c2e7e8f91c

ESC-50.zip
ZIP Archive - 233.7 MB - May 1, 2015 - 343 Downloads
MD5: aa0741a38e72cede5e1e4767f4e76fce

ESC-US-00.tar.gz
application/x-gzip - 2.1 MB - Oct 18, 2015 - 327 Downloads
MD5: 9b9512e7fd2acd06c2239d0fc2ed34b9

ESC-US-01.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 433 Downloads
MD5: f3e635d283a034c3dcdb509202fe277d

ESC-US-02.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 406 Downloads
MD5: e2f244963e9e395ca5fd8b1c19e75d7c

ESC-US-03.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 410 Downloads
MD5: d1d14f4bc9d3da3ee44dd1ef5b3f06b6

ESC-US-04.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 429 Downloads
MD5: a6ab548d125bf1fe9a268d03caffe3ad

ESC-US-05.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 412 Downloads
MD5: abfee972a81809d9f72277d6bb655098

ESC-US-06.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 401 Downloads
MD5: 9fc0e5cf439aeb3fb7dc11517f566177

ESC-US-07.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 376 Downloads
MD5: 8e0e62c2f8c6bf00289dd70ebb92ae73

ESC-US-08.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 360 Downloads
MD5: 0eefe3f8540f1e59b7b162f1f357f5c7

ESC-US-09.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 360 Downloads
MD5: ef7730a0028844833b71103b8b5d7766

ESC-US-10.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 356 Downloads
MD5: 1a4c0123dd851cfe63f20d5652b09ea0

ESC-US-11.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 358 Downloads
MD5: c87de1f4e6a45dcf00bd71a4934c765e

ESC-US-12.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 359 Downloads
MD5: 52d6495bd62d07efe7527eac9f6b42d5

ESC-US-13.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 354 Downloads
MD5: 7fe954eb77d236322e7e3f6181960119

ESC-US-14.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 359 Downloads
MD5: 74dcbe9b93217db556743033456e43cb

ESC-US-15.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 351 Downloads
MD5: b74f5bb28872be3007af37cd5e0bd914

ESC-US-16.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 352 Downloads
MD5: 7dc0073b0056be7656daaa3d565aca98

ESC-US-17.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 353 Downloads
MD5: e44969c145c1e98aefd25cc925cab9ec

💬 Feedback

HARVARD
Dataverse

🔍   关于   User Guide   支持   注册   登录

ESC-US-18.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 366 Downloads
MD5: 3897e507c925230f0c8f7b21160df05d

ESC-US-19.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 352 Downloads
MD5: 88cb93cd783aec2c545155034762a28f

ESC-US-20.tar.gz
application/x-gzip - 1.0 GB - Oct 18, 2015 - 356 Downloads

Powered by **The Dataverse Project**

v. 4.8.4 build 128-ef7dce7

💬 Feedback