

End User License Agreement “BP4D-Spontaneous” and “BP4D+” Datasets (FERA 2015 and FERA 2017 Challenge)

“BP4D-Spontaneous” as Training Data (a.k.a. BP4D-Train)
Partial “BP4D+” as Validation Data (a.k.a. BP4D-Validation)

A) DATASETS

The “**BP4D-Spontaneous**” (Binghamton-Pittsburgh 4D Spontaneous Facial Expression Database) [Yin 2014] and “**BP4D+**” (extended BP4D database) [Yin 2016] were developed in the Graphics and Image Computing Laboratory, directed by Dr. Lijun Yin at the Department of Computer Science, State University of New York at Binghamton, and Dr. Jeff Cohn at the University of Pittsburgh. The project was funded by the United States National Science Foundation for human affective behavior research.

(a) Definition

- 1) BP4D-Train (2015)** is a subset of the database BP4D-Spontaneous [Yin 2014], which consists of 2D spontaneous facial expression videos (Frontal View Pose) and FACS codes.
- 2) BP4D-Train (2017)** is a subset of the database BP4D-Spontaneous [Yin 2014], which consists of 2D spontaneous facial expression videos (Frontal View Pose + Multiple Other Poses) and FACS codes.
- 3) BP4D-Validation (2017)** is a subset of the database BP4D+ [Yin 2016], which consists of 2D spontaneous facial expression videos (Frontal View Pose + Multiple Other Poses) and FACS codes.

(b) FERA Training and Validation datasets

- 1) BP4D-Train (2015)** is used as a training dataset for *FERA 2015 Challenge* [Valstar 2015];
- 2) BP4D-Train (2017) and BP4D-Validation (2017)** are used for training dataset and validation dataset for *FERA 2017 Challenge* [Valstar 2017], respectively.

B) TERMS

Users must agree to the following terms:

- (1) The data will be used for non-for-profit research only.
- (2) If the datasets are used, in whole or in part, for any publishable work, the following papers must be referenced:

(2.1) If you use any of the FERA 2015 data, *i.e.*, **BP4D-train (2015)**, please cite the following two papers describing the data and challenge:

- [Yin 2014] Xing Zhang, Lijun Yin, Jeff Cohn, Shaun Canavan, Michael Reale, Andy Horowitz, Peng Liu, and Jeff Girard, “BP4D-Spontaneous: A high resolution spontaneous 3D dynamic facial expression database”, *Image and Vision Computing*, 32 (2014), pp. 692-706 (special issue of the Best of FG13)
- [Valstar 2015] Michel F. Valstar, T. Almaev, Jeff M. Girard, G. McKeown, M. Mehu, Lijun Yin, & Jeff F. Cohn, FERA 2015 - Second Facial Expression Recognition and Analysis Challenge. In *11th IEEE International Conference and Workshops on Automatic Face and Gesture Recognition (FG)*, 2015

(2.2) If you use any of the FERA 2017 data, *i.e.*, **BP4D-train (2017) and BP4D-Validation (2017)**, please cite the following three papers describing the data and challenge:

- [Yin 2014] Xing Zhang, Lijun Yin, Jeff Cohn, Shaun Canavan, Michael Reale, Andy Horowitz, Peng Liu, and Jeff Girard, “BP4D-Spontaneous: A high resolution spontaneous 3D dynamic facial expression database”, *Image and Vision Computing*, 32 (2014), pp. 692-706 (special issue of the Best of FG13)
- [Yin 2016] Zheng Zhang, Jeff Girard, Yue Wu, Xing Zhang, Peng Liu, Umur Ciftci, Shaun Canavan, Micheal Reale, Andy Horowitz, Huiyuan Yang, Jeff Cohn, Qiang Ji, and Lijun Yin, Multimodal Spontaneous Emotion Corpus for Human Behavior Analysis, *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR) 2016*.
- [Valstar 2017] Michel F. Valstar, Enrique Sanchez-Lozano, Jeff F. Cohn, Laszlo A. Jeni, Jeff. M. Girard, Lijun Yin, Zheng Zhang, Maja Pantic, FERA 2017 - Addressing Head Pose in the Third Facial Expression Recognition and Analysis Challenge, In *12th IEEE International Conference and Workshops on Automatic Face and Gesture Recognition (FG)*, 2017

(2.3) If you use data from both FERA 2015 and FERA 2017, please cite all above listed papers.

(3) Any use of the databases in the development of a commercial product, or the distribution or sharing of the data with a third party, is prohibited.

B) STATEMENT

I have read the above statement, and agreed all terms of use. I understand that the violation of the use will be pursued.

Recipient's Printed Name and Title

(Note: "Recipient" must be a full-time faculty, not a student, nor a post-doc.)

Signature

Recipient's Organization and Address

Recipient's Phone**Email****Date**

Please sign on the form and return by email to Dr. Lijun Yin and Dr. Michel Valstar:

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