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Note to NITRLipV1 Database

Detail of Capturing Device and Mechanism:

Capturing device: Canon PowerShot A1100 IS
Camera exposure details: Aperture: F2.7, Shutter speed: 1/60s – 1/25s
Capturing spectrum: Visible Spectrum (VS)
Capturing condition: Constrained
Illumination condition: Indoor, Varied
Image format: JPEG

Detail of the Subjects:

#Subjects: 15	#Images: 109	Age group: (20, 40) years
Genders: {Male, Female}	Ethnicity: Indian	Expression: Nil

Detail of Nomenclature:

Download *NITRLipV1.zip* (for Windows) or *NITRLipV1.tar.gz* (for Linux) in your computer and unzip the zipped folder. The zipped folder contains two folders: *NITRLipV1_Crude* and *NITRLipV1_Cropped*. *NITRLipV1_Crude* contains crude photographs of the subjects as they are captured originally, while *NITRLipV1_Cropped* contains the extracted templates from the images in the former folder. The following paragraph describes the arrangement of images in both *NITRLipV1_Crude* and *NITRLipV1_Cropped* folders:

There are folders named from *1001M* to *1015M*. In the name, the first numeral denotes the version of the database (which is *1* in every case in this database). Next three numerals denote the subject ID (e.g. folder titled *1008M* will contain the images of subject# *008*).The last character in the folder name denotes whether the subject is Male (*M*) or Female (*F*).

Images of same subject are placed in single folder (e.g., in the folder *1005M*, the images of only subject# *5* can be found). Each of the images will bear a name beginning with the subject ID (folder name) and will be followed by instance ID (e.g., an image *1002M003.jpg* is found in folder *1002M* and it is the *3*rd instance captured on the *2*nd subject of the dataset and the subject is *M*ale).

Possible uses of the dataset:

This database is intended for research towards (i) localization, (ii) recognition, and (ii) gender classification of lip images.

How to use:

The database is freely distributed and can be downloaded for personal or research-specific use by any individual / laboratory / academic institution. For any other use, prior permission should be acquired from the collectors of the dataset.

Citation:

Any experiment tested upon NITRLipV1 must cite the following article:

Sambit Bakshi, Rahul Raman, and Pankaj K Sa, "Lip Pattern Recognition based on Local Feature Extraction," in proceedings of 2011 8th Annual IEEE India Conference (INDICON), IEEE, India, 2011, DOI: 10.1109/INDCON.2011.6139357.

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