

An Enhanced, Multi Context Chewing Large Data Set¹

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1. Introduction

In this document, we describe enhanced and large video data sets that are used in the creation of algorithms for chewing recognition. These videos correspond to the paper:

A. Helal, M. Schmalz and A. Mendez-Vazquez, "Efficient Video-based Detection of Chewing Behaviors," Proceedings of the IEEE International Conference on Image Processing, Cairo, Egypt, November 7-11, 2009.

The video streams represent seven individuals doing the following sequence of events:

1. Chewing open mouth.
2. Chewing close mouth.
3. Making faces.
4. Talking.
5. Non-moving face.

Each of these events has the respective file names:

1. chewing-open-frontal.avi.
2. chewing-closed-frontal.avi.
3. clutter-faces-frontal.avi.
4. clutter-talking-frontal.avi.
5. control-faces-frontal.avi.

Each of these files has the following video format:

Frame size, fps	640x480, 23.97 fps
Length	504 frames
Decompressor	Intel Indeo(R) Video R3.2(IV32)
Data Rate	2636 kbps

Each individual

has the following subdirectory:

1. Original_videos, the original source of videos