

Emotional recognition by voice

- ◆ The technology of emotional recognition based on the frequency feature amount included in the voice without teacher data



◆ Functionality

- Proprietary algorithm based on Panasonic's patents
Ex. Recognition by extracting the frequency feature amount in the voice indicates emotion expression.
- Using the wav file which describes voice data
- 3 emotional recognition types : "Calm", "Joy" or "Angry"
- Output the result by JSON format
- Engine types : SDK type or API Type

◆ Advantages

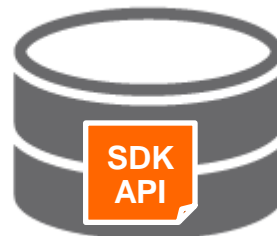
- Unnecessary of teacher data
- Real time processing (less than 300msec)
- Simple algorithm (feasible with a low spec computer like as Raspberry Pi)



- Input your voice
- Converting the voice to wav file format



- Transmitting the wav file to SDK/API



- Emotional recognition
- By SDK/API Engine



- Output the result which is "Calm", "Joy" or "Angry"



基于语音的情绪识别

◆一种基于包含在语音中的频率特征的数量，并且不需要训练数据的情绪识别技术。

◆功能

- 基于松下专利的专有算法
例如：通过提取包含在语音中的频率特征的数量来进行识别，标示情绪表达
- 使用描述语音数据的wav文件
- 三种情绪识别类型：“平静”、“高兴”或者“愤怒”
- 用JSON格式输出结果
- 引擎类型: SDK或API

◆优点

- 无需训练数据
- 实时处理 (少于300msec)
- 算法简单 (可用于配置较低的电脑，例如Raspberry Pi)



- 输入语音
- 把语音转化成wav文件格式



- 把wav文件传送至SDK/API



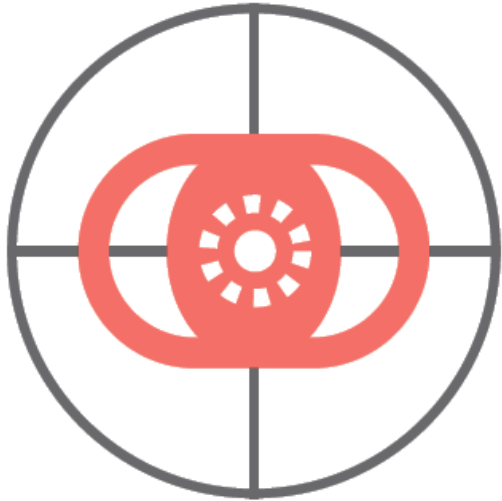
- 情绪识别
- 使用SDK/API引擎



- 输出结果：
“平静”、“高兴”或者
“愤怒”

IRIS authentication

- ◆ High security technology which is a type of biometric authentication



◆ Functionality

- Proprietary technology based on Panasonic's patents
Ex. High authentication ratio by using combining of a plurality of images
- Authentication by comparing pre-registered IRIS data
- 2 modes : Normal mode or Ambient light cutoff mode
- Engine types : SDK type or API Type

◆ Advantages

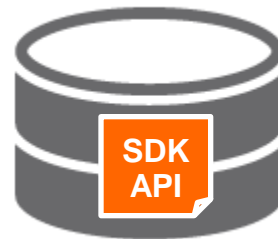
- High security(a type of biometric authentication technology)
- Touchless interface
- Authentication available out of doors



• Input image data including IRIS image



• Transmitting an image, which is formed by jpg/png/jpeg, to SDK/API



• Extracting IRIS image
• Converting the IRIS image to IRIS code
• Comparing pre-registered data
• By SDK/API Engine

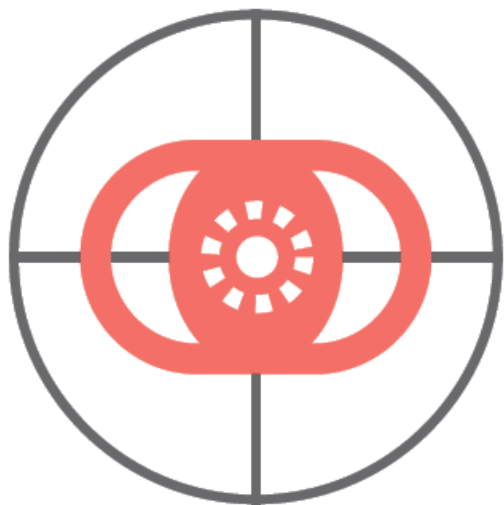


• Output the result which is "OK" or "NG"



IRIS识别

◆一种高安全性生物特征识别技术



◆功能

- 基于松下专利的专有技术
例如：通过结合多个图像，实现高识别率
- 通过比较预注册的IRIS数据进行识别
- 两种模式：标准模式或背景光关闭模式
- 引擎类型：SDK或API

◆优点

- 高安全性(一种生物特征识别技术)
- 无接触界面
- 可用于户外识别



• 输入包括IRIS图像
的图像数据



• 把jpg/png/jpeg格式的图像传
送至SDK/API



• 提取IRIS图像
• 把IRIS图像转换成IRIS代码
• 比较预注册的数据
• 使用SDK/API引擎



• 输出结果：“OK”或“NG”

