

Practical Experience Recording and Indexing of Life Log Video

Datchakorn Tancharoen, Toshihiko Yamasaki, Kiyoharu Aizawa
 Dept. of EE & Frontier Informatics, The University of Tokyo, JAPAN

Introduction

Small Computer, Practical Capturing Devices, Useful Sensors

Life Log System

Problems

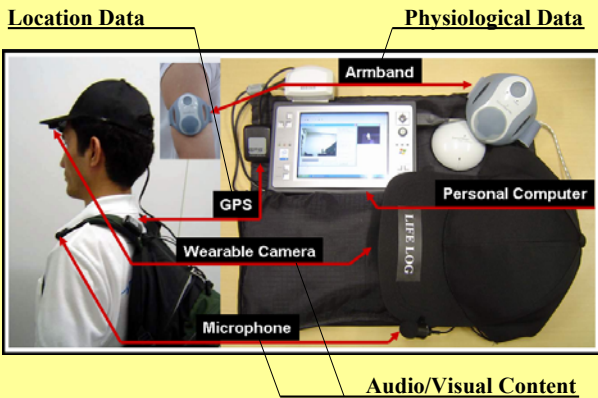
1. How to capture experience effectively
2. How to index/retrieve efficiently

Experience Retrieval

- **Retrieval Method**
 - Media Type Selection
 - Hierarchical Retrieval
- **Select Desired Media**
 - Date, Time
 - Media Type
 - Indexing Method
- **Video Indexing**
 - Key Frame Extraction
 - Video Representation



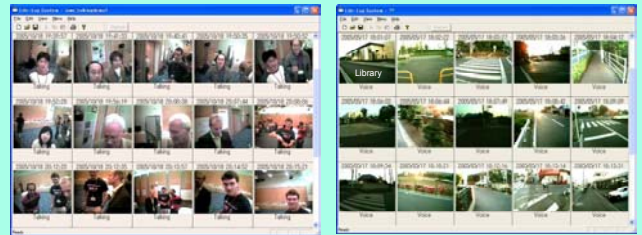
Experience Recording



Life Log System

Life Log Video Indexing

- Life Log video is the most important media to understand our life experiences. Thus, we propose the selectable indexing methods to extract preferable key frames based on Life Log contents and contexts to recall the interesting events.



Talking Scene

Voice and face contents to detect face talking scenes

Voice Annotation

User's attention on interesting events

Proposed Solution

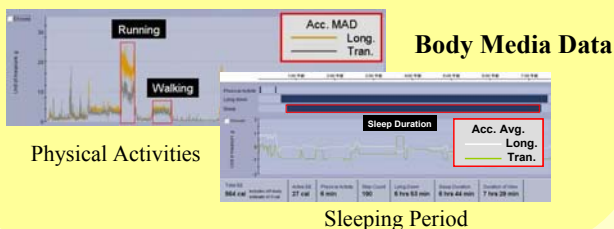
Hard to wear More detail **Hierarchical Approach**

1. Life Log Video
2. Digital Video
3. Digital Photo
4. Body Media



Easy to wear Less detail

Integrated into the Life Log system



Conclusions

- To demonstrate practical experience recording and retrieval method.
- To present effective indexing methods to extract Life Log video.
- To display Life Log visualization and summarization.