

LTA 2016 — The First Workshop on Lifelogging Tools and Applications

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ABSTRACT

The organisation of personal data is receiving increasing research attention due to the challenges we face in gathering, enriching, searching, and visualising such data. Given the increasing ease with which personal data being gathered by individuals, the concept of a lifelog digital library of rich multimedia and sensory content for every individual is fast becoming a reality. The LTA 2016 workshop aims to bring together academics and practitioners to discuss approaches to lifelog data analytics and applications; and to debate the opportunities and challenges for researchers in this new and challenging area.

CCS Concepts

•Information systems → Digital libraries and archives;
Multimedia information systems;

Keywords

Personal information management, Lifelogging, Personal digital archives

1. INTRODUCTION

Given the increasing quantities of personal data being gathered by individuals, the concept of a digital library of rich multimedia and sensory content for every individual is fast becoming commonplace. Recent technological advances have introduced new types of personal sensors (e.g., wearable sensors and informational sensors) and devices (e.g., Google Glass or Apple's iWatch), which allow the individual to passively compile vast archives of personal data, com-

monly referred to as lifelogs [4]. The success of the quantified-self movement [7] is testament to the willingness of individuals to gather archives of such lifelogs, which are unprecedented in terms of volume and variety. Captured over a long period of time, heterogeneous lifelogs can provide a detailed picture of the activities of an individual, with numerous applications in terms of personal data archiving [3], health and wellness [1] and assistive technologies for human memory [2].

Applications of lifelogging ideally require knowledge extraction, search, summarisation, and visualisation tools to support individuals or practitioners to extract value from the data. Therefore it comes as no surprise that lifelogging is receiving increasing attention within the research community and is fast becoming a mainstream research topic in its own right. However, there are significant technical challenges to be solved, arising from the gathering, semantic enrichment, and pervasive accessing of these vast personal data archives. Yet what makes lifelogging unique is that there are many related aspects that need to be considered, such as privacy and data security [5], which has implications for both the individual and society as a whole [6]. Hence, we felt that there was a need for a interdisciplinary workshop in the area of lifelogging.

2. AIM OF THE WORKSHOP

The primary aim of the LTA 2016 workshop is to bring together interdisciplinary researchers and practitioners to discuss approaches for, and experiences of lifelog data capture, analytics and applications, as well as identifying opportunities and challenges for researchers in this new and challenging area. The disciplines involved in the workshop are expected to include multimedia analytics, wearable and ubiquitous computing, human computer interaction, information retrieval, cognitive science and healthcare & wellness.

The workshop has been designed to be highly interactive with a range of workshop elements chosen to encourage discussion and cross-fertilisation of research ideas. There will be the typical oral and poster presentations, but there will also be there will be stimulating keynote speakers (academic and practitioner), a booster/spotlight session and a panel discussion of experts.

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3. TOPICS OF INTEREST

We sought full papers (oral session) and short papers (poster session) related to the topics of interest for the workshop, which included, but were not limited to:

- Tools supporting the creation of lifelogs
- Multimedia data analytics and semantic enrichment for lifelog and quantified-self data
- User experience design for accessing lifelogs
- Privacy and data security challenges of lifelogging
- Egocentric vision and first-person camera vision
- Experiences of lifelogging and quantified-self activities
- Social applications and implications of life-logging
- Lifelogging applications in computational social science
- General applications of lifelogging and experiences of same
- Ethical issues arising from lifelogging activities
- Digital preservation and maintenance of lifelogs

4. WORKSHOP PROGRAMME

LTA 2016 is a one-day workshop. After a thorough review process by the programme committee, we have accepted four papers for full oral (and poster) presentation. Five additional papers were accepted to be presented solely in poster format. These papers will be presented in dedicated morning and afternoon sessions. In addition, the workshop will have two keynote speakers: one to open the workshop in the morning, and one in the afternoon. The following speakers are invited:

- Maarten Den Braber (Quantified Self Amsterdam, NL & SingularityU, NL)
- Alisha Williams (University of Utrecht, NL)

To wrap-up the workshop, we are having a panel discussion with a team of expert researchers and practitioners.

5. ORGANISING COMMITTEE

The LTA 2016 workshop was organised by:

- Cathal Gurrin (Insight Centre for Data Analytics & Dublin City University)
- Xavier Giro-i-Nieto (Universitat Politècnica de Catalunya)
- Petia Radeva (University of Barcelona)
- Hideo Joho (University of Tsukuba)
- Håvard Johansen (University of Tromsø, the Arctic University of Norway)
- Vivek K. Singh (Rutgers, the State University of New Jersey)
- Mariella Dimiccoli (Computer Vision Centre, University of Barcelona)

6. PROGRAMME COMMITTEE

We thank the LTA 2016 programme committee for their commitment and time in reviewing the submissions and helping us to create a stimulating workshop schedule. The programme committee members were:

- Jochen Meyer (OFFIS)
- Giuseppe Serra (University of Modena)
- Tom Van Daele (Thomas More University College)
- Jenny Benois-Pineau (University of Bourdeaux)
- Yiannis Kompatsiaris (Center for Research and Technology Hellas)
- Alisha Williams (University of Utrecht)
- Paulina Piasek (Dublin City University)
- David Crandall (Indiana University)
- Kris Kitani (CMU)
- Gregory Rogez (INRIA Rhones-Alpes)
- Alejandro Betancourt (TU Eindhoven)
- Cheston Tan (Institute for Infocomm Research, A*STAR)
- Edison Thomaz (University of Texas at Austin)
- Giovanni Maria Farinella (University of Catania)
- Jiang Zhou (Dublin City University)
- Frank Hopfgartner (Glasgow University)
- Duc Tien Dang Nguyen (University of Trento)
- Wolfgang Hurst (University of Utrecht)
- Mariella Dimiccoli (Computer Vision Centre, University of Barcelona).

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