LTA 2017: The Second 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 2017 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

In recent years we note the increasing quantities of personal data being gathered by individuals. Hence the concept of a lifetime digital library of rich multimedia and sensory content for every individual is becoming feasible. These vast archives of personal data, commonly referred to as lifelogs [6], are driven by the ready avaiability of new, low-cost sensing technologies, such as smartphones, fitness trackers and wearable cameras. The success of the quantified-self movement [7] is testament to the willingness of individuals to gather archives of such lifelogs. 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.

2 AIM OF THE WORKSHOP

The 2017 Lifelogging Tools and Applications (LTA) workshop at ACM Multimedia 2017 builds on the momentum from the inaugural LTA 2016 [4] workshop to bring together interdisciplinary researchers and practitioners to discuss approaches to lifelog data analytics and the applications of same, and to debate the opportunities and challenges in this new and challenging area. LTA 2017 is of interest to a broad spectrum of ACM Multimedia 2017 attendees, from those interested in multimedia data analytics, search and retrieval, to those who focus on user experience, real-world applications and captology from personal data.

This workshop is organised in parallel to the recent emergence of comparative benchmarking exercises such as lifelog evaluation task at NTCIR-13 [5] that focuses on the evaluation of access methodologies for large lifelogs. Apart from technical challenges arising from gathering, semantic enrichment and accessing vast amounts of lifelong data, various additional aspects need to be considered that are concerned with the impact on these new technological advances both for individuals as well as for society as a whole.

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

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- 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 2017 was a half-day workshop designed to be highly interactive with a range of workshop elements chosen to encourage discussion and cross-fertilisation of research ideas.

After a thorough review process by the programme committee, we accepted two papers for full oral (and poster) presentation. Three additional papers were accepted to be presented solely in poster format. In addition, the workshop had one keynote speaker who is a leading researcher in the area. To wrap-up the workshop, we held a panel discussion with a team of expert researchers and practitioners.

5 ORGANISING COMMITTEE

The LTA 2017 workshop was organised by:

- Cathal Gurrin (Insight Centre for Data Analytics & Dublin City University)
- Xavier Giro-i-Nieto (Universitat Politecnica de Catalunya)
- Petia Radeva (Universitat de Barcelona)
- Hideo Joho (University of Tsukuba)
- Mariella Dimiccoli (Computer Vision Centre, Universitat de Barcelona)
- Duc Tien Dang Nguyen Insight Centre for Data Analytics & Dublin City University)

6 PROGRAMME COMMITTEE

We thank the LTA 2017 programme committee for their commitment and time in reviewing the submissions and helping us to create a stimulating workshop schedule. In addition to the organising committe, who were all programme committee members, we also acknowledge the sigificant effort of the following:

- Frank Hopfgartner (University of Glasgow)
- Jiang Zhou (Dublin City University)
- Ana Garcia Del Molino (IR2)
- Luca Piras (DIEE)
- Michael Riegler (Simula Research Laboratory)
- Wolfgang Hurst (University of Utrecht)

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