

LIAM - A Two Decade Exploration of Lifelogging

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ABSTRACT

The idea of lifelogging [1] has recently been gaining public interest and it's noted that there has been over a decade of research activity in the area [2]. In this talk, I will describe LIAM (Lifestyle-Integrated Automation Machine) which represents a first attempt at a holistic lifelogging solution that supports gathering lifelog data, accessing this data and (uniquely) using this data to report and automate aspects of my life. LIAM represents lifelogging journey that has recorded 7100 days. LIAM may be described as a "Life Management System" or a pervasive technology system to record, report, assess, and control aspects of my life. Logically, LIAM may be viewed across three dimensions:

LifeChronicle: LifeChronicle represents a record of the past (my lifelog). It contains over a dozen categories from physical activities to completed tasks to life events. Over time, this data has become more and more extensive.

LifeState: LifeState is a description of my life's current state compartmentalized into nine essential "elements" which I propose create a "whole person". LIAM summarizes and computes these states with data from LifeChronicle near real-time. It also compares LifeState constituents against targets and using a weighted scorecard creates a LifeScore. This abstracts my life as a single number.

LifeConsole: LifeConsole is the collection of tools and processes I use to drive LifeChronicle and LifeState – or to be driven by them. This goes beyond desktop and mobile tools but includes extensive home automation as well.

CCS Concepts/ACM Classifiers

H.1.2 [User/Machine Systems]: Human information processing

Author Keywords

Lifelogging; Ambient Computing; Home Automation; Life Modelling; Automated Life Assessment

BIOGRAPHY

Tahl Milburn started his technology career 40 years ago supporting the TRS-80 Model 1 while enrolled at University of

Texas. In the decade that followed, Tahl took on lead tech roles in some first-ever factory automation projects for General Motors and Ford. In the decades that followed, Tahl took on leadership roles at Fortune 500 companies including Cisco and Visa. All the while, he worked on Liam across multiple generations. Now Tahl has taken a small part of the "reference system" and created a company LifeState, Inc. He hopes more of Liam will be commercialized over time.



REFERENCES

[1] M. Dodge and R. Kitchin. 'Outlines of a world coming into existence': Pervasive computing and the ethics of forgetting. *Environment and Planning B: Planning and Design*, 34(3):431{445, 2007.

[2] C. Gurrin, A. F. Smeaton, and A. R. Doherty. Lifelogging: personal big data. *Foundations and Trends in Information Retrieval*, 8(1):1{125, 2014.

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