## Literature surrounding Pervasive Computing

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#### Abstract

Lee and Meier define the aims of pervasive computing as to embed computer system into every day life and environments without demanding the users explicit attention[1]. Connected devices are now ubiquitous with even the most mundane appliances in our surroundings having sensors and network access. It is the intent of this paper to review the literature surrounding the challenges that this ubiquity brings to UNFINISHED.

## 0.1 Introduction

The major challenges, outside of storage methods of the data, occur in the areas of data modelling and data protection. With vast rams of data collected it is important that the information can be garnered from it and that privacy and security are maintained.

## 0.2 Context

The importance of context is emphasised by Castelli, Mamei, Rosi & Zambonelli by stressing that pervasive computing services should:

"exploit contextual information both to adapt to user needs and to enable autonomic behaviour" [2]

The W4 model outlined by Castelli et al used Who, Where, Why and When to model contextual information from gathered data. These four 'Ws' are recorded as a set of key value pairs can more semantic information can by gleaned from the information. They also outline ways to graph the connections between other sets of 'Ws' through learned meaning. As an example if you spend most evenings and weekends in a particular location (a Where) that can be inferred to be home.

## 0.3 Open Linked Data

"The Linked Data paradigm involves practices to publish, share, and connect data on the Web, and offers a new way of data integration and interoperability." [3]

## 0.4 Security

Security

## 0.5 Conclusion

# **Bibliography**

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