DS200 Module 4: Assignment

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Abstract

Your abstract goes here...
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1 Introduction

2 Review of Paper 1

Starting a new section here.
This is a review of [1].

2.1 Strengths

Proposes a model that allows non IT experts to configure sensorsand data processing mechanisms in an IoT middleware(the CASCOM model). The approach is scalable, autonomous, utility based,dynamic and easy to use. Also performs additional context discovery and provides suggestions.

2.2 Weakness

The Question-Answer based model might not be generalizable without lot of efforts. Also not much to do here for an IT expert.

2.3 Summary

Not considering any privacy aspects into the model. CASCOM significantly useful for non IT experts and identifying secondary context information.

3 Review of Paper 2

This is a review of [2].

3.1 Strengths

Proposes a data provenance model. Information Quality is seen as an aggregated value of multiple criteria. A graph based approach so easily visualisable.

3.2 Weakness

Tailors a data provenance model specifically for the use case.Does not depend on the granularity.

3.3 Summary

An approach for using provenance information about the data on the Web to assess their quality and trustworthiness.

4 Conclusions

References

[1] C. Perera and A. V. Vasilakos, "A knowledge-based resource discovery for internet of things," *Knowledge-Based Systems*, vol. 109, no. Supplement C, pp. 122 – 136, 2016. [Online]. Available: http://www.sciencedirect.com/science/article/pii/S095070

[2] O. Hartig and J. Zhao, "Using web data provenance for quality assessment," in *Proceedings of the First International Conference on Semantic Web in Provenance Management - Volume 526*, ser. SWPM'09. Aachen, Germany, Germany: CEUR-WS.org, 2009, pp. 29–34. [Online]. Available: http://dl.acm.org/citation.cfm?id=2889875.2889881