

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 sensors and data processing mechanisms in an IoT middleware (the CASCOS 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. CASCOS 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

A good paper for looking at characteristics of IoT data. Also proposes a generalizable application framework for IoT applications..

3.2 Weakness

Not very fine grained description is given about the characteristics. Does not back this up with use cases.

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] Y. Qin, Q. Z. Sheng, N. J. Falkner, S. Dustdar, H. Wang, and A. V. Vasilakos, "When things matter: A survey on data-centric internet of things," *Journal of Network and Computer Applications*, vol. 64, no. Supplement C, pp. 137 – 153, 2016. [Online]. Available: <http://www.sciencedirect.com/science/article/pii/S1084804516000606>