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ROBUST DRIVE-BY ROAD SIDE PARKING DETECTION ON MULTI- LANE STREETS USING AN OPTICAL DISTANCE SENSOR



Thesis Outline

Affidavit

I hereby declare that the following bachelor's thesis "Making Computers Understand Coalition and Opposition in Parliamentary Democracy" has been written only by the undersigned and without any assistance from third parties.

Furthermore, I confirm that no sources have been used in the preparation of this thesis other than those indicated in the thesis itself.

Linz, on March 26, 2017

Markus Hiesmair

Abstract

abstract...

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Abbreviations

CSS Cascading Style Sheet

ETL Extract Transform Load

JSON Javascript Object Notation

HTML Hypertext Markup Language

REST Representational State Transfer

RSS Rich Site Summary

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Chapter 1

Introduction

Currently the road side parking situation in most cities is rather untransparent. Except from parking garages and the like information about the availability of parking spaces is rarely available. However, finding parking spaces in urban areas can be a really difficult, frustrating and time consuming task for drivers. Furthermore, information about free parking spaces can help to reduce traffic by a tremendous amount. Studies have shown that in urban areas about 30% of traffic congestion is created by drivers looking for free parking spaces [2] and that in 2007 a loss of about \$78 billion U.S. dollars was created by the use of about 2.9 billion gallons of gasoline alone in the USA [1]. Furthermore, about 4.9 billion hours were wasted by drivers while looking for parking spaces during that year.

Chapter 2

Related Work

Chapter 3

Design and Implementation

Chapter 4

Results and Discussion

Chapter 5

Conclusions and Future Work

Bibliography

- [1] Texas Transportation Institute. Urban mobility report. 2007.
- [2] Sarfraz Nawaz, Christos Efstratiou, and Cecilia Mascolo. Parksense: A smartphone based sensing system for on-street parking. In *Proceedings of the 19th Annual International Conference on Mobile Computing & Networking*, MobiCom '13, pages 75–86, New York, NY, USA, 2013. ACM.