MULTIPATH TRANSMISSION FOR CONTENT-CENTRIC NETWORKING IN VEHICULAR AD-HOC NETWORKS

Bachelorarbeit der Philosophisch-naturwissenschaftlichen Fakultät der Universität Bern

vorgelegt von

Thomas Kolonko 2017

Leiter der Arbeit:
Professor Dr. Torsten Braun
Institut für Informatik und angewandte Mathematik

Contents

Co	Contents List of Figures							
Li								
Li	st of T	Tables	iii					
1	Intr	oduction	1					
	1.1	General	1					
	1.2	Study Subject	1					
	1.3	Motivation	1					
	1.4	Outline	1					
2	Rela	ated Work	2					
	2.1	CNN	2					
	2.2	VANETS	2					
3	ndn	SIM	3					
	3.1	Simulation Environment	3					
4	Desi	gn and Implementation	4					
	4.1	Problem Description	4					
	4.2	Multipath approach	4					
5	Eval	luation	5					
6	Con	clusion	6					
	6.1	Summary and Conclusion	6					
	6.2	Future Work	6					
7	App	endix	7					

List of Figures

List of Tables

Acknowledgment

On this page I would like to thank everybody who supported me to write this bachelor thesis. First I would like to thank my coach Eirini Kalogeiton. She supported me trough the whole process of writing this thesis, spend many hours for pair programming sessions and gave valueable inputs when nothing seemed to work anymore. After that I would like to thank Prof. Dr. Torsten Braun who allowed me to write this thesis in his research group. I am also very grateful for the resources that were generously provided by the reasearch group of Prof. Braun.

Abstract

Content-Centric Networking (CCN) is a new network approach where the focus lies on the names and not on the host identifiers. This new network approach comes with many benefits.

What did I try to do

What did I achieve

Introduction

Blablabla

- 1.1 General
- 1.2 Study Subject
- 1.3 Motivation
- 1.4 Outline

Related Work

- 2.1 CNN
- 2.2 VANETS

ndnSIM

3.1 Simulation Environment

Design and Implementation

- 4.1 Problem Description
- 4.2 Multipath approach

Evaluation

Conclusion

- 6.1 Summary and Conclusion
- 6.2 Future Work

Appendix