#### Technology Arts Sciences TH Köln

# Improving e-commerce fraud investigations in virtual, inter-institutional teams:

Towards an approach based on Semantic Web technologies

#### Master thesis

by

Andreas Gerlach

submitted to obtain the degree of

MASTER OF SCIENCE (M.Sc.)

at

TH KÖLN - UNIVERSITY OF APPLIED SCIENCES INSTITUTE OF INFORMATICS

Course of Studies
Web Science

First supervisor: Prof. Dr. Kristian Fischer

TH Köln - University of Applied Sciences

Second supervisor: Stephan Pavlovic

TH Köln - University of Applied Sciences

Cologne, August 2016

Contact details:

Andreas Gerlach Wilhelmstr. 78 52070 Aachen andreas.gerlach@smail.th-koeln.de

Prof. Dr. Kristian Fischer TH Köln - University of Applied Sciences Institute of Informatics Steinmüllerallee 1 51643 Gummersbach kristian.fischer@th-koeln.de

Stephan Pavlovic TH Köln - University of Applied Sciences Institute of Informatics Steinmüllerallee 1 51643 Gummersbach stephan.pavlovic@th-koeln.de

## **Abstract**

Describe in short what this thesis is all about

Keywords: ...

## **Contents**

1	Introduction			
	1.1	Motivation	6	
	1.2	Problem Definition		
	1.3	Thesis Outline		
2	Context Analysis			
	2.1	Scenario Description	7	
	2.2	Stakeholder Analysis		
	2.3	Objectives		
	2.4	Scope		
3	Theoretical Foundations			
	3.1	Computer Supported Collaborative Work	8	
	3.2	Semantic Web		
	3.3	Peer-to-peer communication technologies	8	
List of figures			9	
List of tables Bibliography			10	
			11	
APPENDIX			12	

## 1 Introduction

Introduction of chapter, overview,  $\dots$ 

- 1.1 Motivation
- 1.2 Problem Definition
- 1.3 Thesis Outline

## 2 Context Analysis

- 2.1 Scenario Description
- 2.2 Stakeholder Analysis
- 2.3 Objectives
- 2.4 Scope

#### 3 Theoretical Foundations

- 3.1 Computer Supported Collaborative Work
- 3.2 Semantic Web
- 3.3 Peer-to-peer communication technologies

## **List of Figures**

## **List of Tables**

## **Bibliography**

