Machine learning techniques for flow-based intrusion detection systems

Author:
Axel FAES

Supervisor:
Prof. Dr. Peter QUAX
Prof. Dr. Wim LAMOTTE
Bram BONNE
Pieter ROBYNS

Bachelorproef voorgedragen tot het behalen van de graad van bachelor in de informatica/ICT/kennistechnologie

A thesis submitted in fulfillment of the requirements for the degree of Bachelor of Science in Computer Science

February 21, 2016

universiteit
hasselt

KNOWLEDGE IN ACTION

UNIVERSITY OF HASSELT

Abstract

Wetenschappen
Computer Science

Bachelor of Science in Computer Science

Machine learning techniques for flow-based intrusion detection systems

by Axel FAES

Acknowledgements

Contents

List of Figures

List of Tables

List of Abbreviations

IDS   Intrusion **D**etection **S**ystem
IPS   Intrusion **P**revention **S**ystem
IDPS Intrusion **D**etection (and) **P**revention **S**ystem
ML   **M**achine **L**earning

List of Symbols

Chapter 1

Nederlandse Samenvatting

Chapter 2

Introduction

Chapter 3

Machine learning

Chapter 4

Machine learning for an IDS

4.1 Disadvantages of using ML for an IDS

Appendix A

Appendix Title Here

Write your Appendix content here.