

The Hong Kong Polytechnic University

Department of Computing

Towards Writing a Beautiful Thesis
for Hong Kong Polytechnic University Degree

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A thesis submitted in partial fulfillment of the requirements for
the degree of Doctor of Philosophy

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CERTIFICATE OF ORIGINALITY

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List of Abbreviations

ATI: Activated Tag Included Method

BES: Base Event Selection Algorithm

CDF: Cumulative Distribution Function

DBEA: Delay Bounded Event Aggregation Algorithm

EAT: Event Aggregation Tree

EDT: Event Definition Tree

EEAT-C: Energy-efficient Event Aggregation Tree Building Algorithm (centralized)

EEAT-D: Energy-efficient Event Aggregation Tree Building Algorithm (distributed)

EPC C1G2: EPC Class 1 Generation 2

FPTAS: Fully Polynomial Time Approximation Scheme

GDT: Group Definition Tree

GUI: Graphical User Interface

LFBS: Latency Constraint Fixed Base Event Selection

MDS: Multidimensional Scaling

MFST: Minimum Fusion Steiner Tree

RFID: Radio Frequency Identification

RSS: Received Signal Strength

SAC: Schedule-based Anti-Collision Protocol

SACO: Schedule-based Anti-Collision Protocol (optimal)

SACWR: Schedule-based Anti-Collision Protocol (without tag replenishment)

SDP: Semidefinite Programming

SPT: Shortest Path Tree

TED: Type-based composite Event Detection

TDOA: Time Difference of Arrival

TOA: Time of Arrival

TSP: Traveling Salesman Problem

WSN: Wireless Sensor Network

Chapter 1

Introduction

This research investigates the fundamental issues for how to write a beautiful thesis.

1.1 Background

1.1.1 Beautiful Thesis

A **beautiful thesis** [1] is a Thesis written with \LaTeX and San Serif font.

References

- [1] D.A. Johnson and M.M. Trivedi. Driving style recognition using a smartphone as a sensor platform. In *Intelligent Transportation Systems (ITSC), 2011 14th International IEEE Conference on*, pages 1609–1615, Oct 2011.