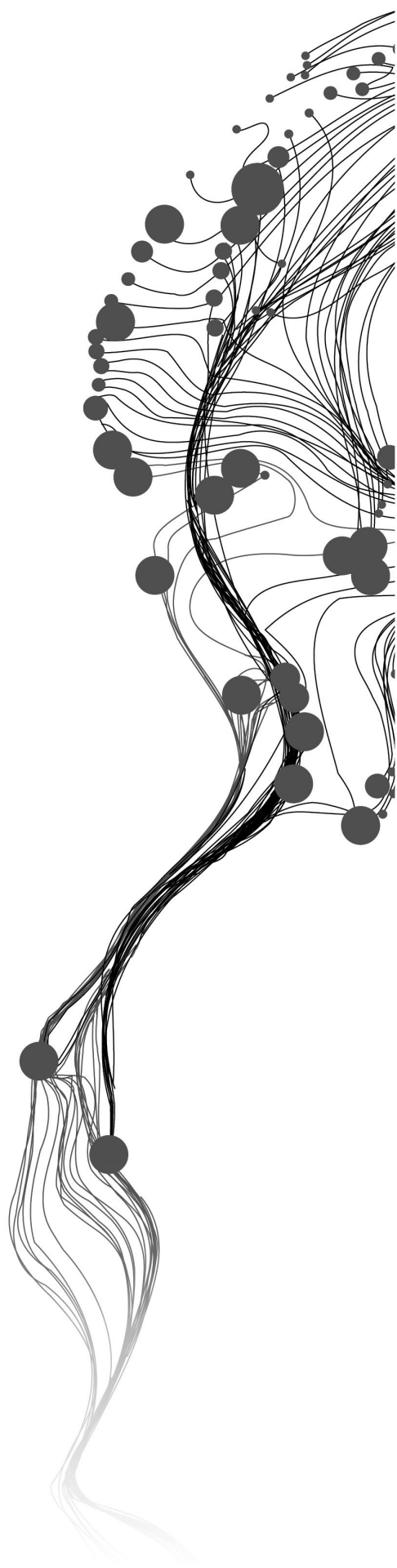# IMPLEMENTATION OF DATA STRUCTURES AND OPERATIONS FOR MOVING OBJECT MODELLING

THEODORE WILLIAM REYES, JR.
April, 2002

SUPERVISORS:

Prof. dr. P. Mallebrootje
advisor to be announced; use \ThesisSupervisors{}

IMPLEMENTATION OF DATA STRUCTURES AND OPERATIONS FOR MOVING OBJECT MODELLING

THEODORE WILLIAM REYES, JR.
Enschede, The Netherlands, April, 2002

Thesis submitted to the Faculty of Geo-information Science and Earth Observation of the University of Twente in partial fulfilment of the requirements for the degree of Master of Science in Geo-information Science and Earth Observation.
Specialization: Geoinformatics

SUPERVISORS:

Prof. dr. P. Mallebrootje
advisor to be announced; use \ThesisSupervisors{}

THESIS ASSESSMENT BOARD:

chair to be announced; use \ThesisChair{} (chair)
Dr. K. Nowsitall
Drs. I. Knowbetter

ABSTRACT

Moving object is a new concept in the area of spatio-temporal GIS. Existing databases are currently unable to handle these objects, due to their lack of proper data structures, operations and methods to answer queries that are required for moving object data management.

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

Chapter 1

Introduction

During the elective, as well as in the week afterwards, the M.Sc. students who attend this elective will work on a short (skeleton) version of their thesis. They will submit by August 10th at the latest three documents (preferably bundled together in a zip file):

1. a PDF version of their skeleton thesis,

2. the BiBTEX file that was used for the above, containing the bibliographic data of at least five references, and

3. the LATEX source file from which the above PDF document was generated.

During the elective, as well as in the week afterwards, the M.Sc. students who attend this elective will work on a short (skeleton) version of their thesis. They will submit by August 10th at the latest three documents (preferably bundled together in a zip file):

1. a PDF version of their skeleton thesis,

2. the BiBTEX file that was used for the above, containing the bibliographic data of at least five references, and

3. the LATEX source file from which the above PDF document was generated.

1.1 GOBBLES AND GIBBLES

During the elective, as well as in the week afterwards, the M.Sc. students who attend this elective will work on a short (skeleton) version of their thesis. They will submit by August 10th at the latest three documents (preferably bundled together in a zip file):

1. a PDF version of their skeleton thesis,

2. the BiBTEX file that was used for the above, containing the bibliographic data of at least five references, and

3. the LATEX source file from which the above PDF document was generated.

During the elective, as well as in the week afterwards, the M.Sc. students who attend this elective will work on a short (skeleton) version of their thesis. They will submit by August 10th at the latest three documents (preferably bundled together in a zip file):

1. a PDF version of their skeleton thesis,

2. the BiBTEX file that was used for the above, containing the bibliographic data of at least five references, and

3. the LATEX source file from which the above PDF document was generated.

During the elective, as well as in the week afterwards, the M.Sc. students who attend this elective will work on a short (skeleton) version of their thesis. They will submit by August 10th at the latest three documents (preferably bundled together in a zip file):

1. a PDF version of their skeleton thesis,

2. the BiBTeX file that was used for the above, containing the bibliographic data of at least five references, and

3. the LaTeX source file from which the above PDF document was generated.

During the elective, as well as in the week afterwards, the M.Sc. students who attend this elective will work on a short (skeleton) version of their thesis. They will submit by August 10th at the latest three documents (preferably bundled together in a zip file):

1. a PDF version of their skeleton thesis,

2. the BiBTeX file that was used for the above, containing the bibliographic data of at least five references, and

3. the LaTeX source file from which the above PDF document was generated.

During the elective, as well as in the week afterwards, the M.Sc. students who attend this elective will work on a short (skeleton) version of their thesis. They will submit by August 10th at the latest three documents (preferably bundled together in a zip file):

1. a PDF version of their skeleton thesis,

2. the BiBTeX file that was used for the above, containing the bibliographic data of at least five references, and

3. the LaTeX source file from which the above PDF document was generated.

During the elective, as well as in the week afterwards, the M.Sc. students who attend this elective will work on a short (skeleton) version of their thesis. They will submit by August 10th at the latest three documents (preferably bundled together in a zip file):

1. a PDF version of their skeleton thesis,

2. the BiBTeX file that was used for the above, containing the bibliographic data of at least five references, and

3. the LaTeX source file from which the above PDF document was generated.

During the elective, as well as in the week afterwards, the M.Sc. students who attend this elective will work on a short (skeleton) version of their thesis. They will submit by August 10th at the latest three documents (preferably bundled together in a zip file):

1. a PDF version of their skeleton thesis,

2. the BiBTeX file that was used for the above, containing the bibliographic data of at least five references, and

3. the LaTeX source file from which the above PDF document was generated.

During the elective, as well as in the week afterwards, the M.Sc. students who attend this elective will work on a short (skeleton) version of their thesis. They will submit by August 10th at the latest three documents (preferably bundled together in a zip file):

1. a PDF version of their skeleton thesis,

2. the BiBTeX file that was used for the above, containing the bibliographic data of at least five references, and

3. the LaTeX source file from which the above PDF document was generated.