

UNIVERSITI TEKNOLOGI MARA

**AN ONTOLOGICAL MODEL FOR
CONVOCATION KNOWLEDGE
IN HIGHER EDUCATION INSTITUTION**

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ABSTRACT

Knowledge in Higher Education Institution (HEI) does not merely focusing towards teaching and learning. But also, in creating and sharing knowledge. These knowledge not only reside in the subject that been taught in classes but also in their activities. These activities includes program like monthly gathering, convocation ceremony, and others. Convocation, can contribute into a lot of knowledge to HEI. Hence, this research aims to develop the ontology model for convocation knowledge. Knowledge in convocation ceremony is a combination of tacit and explicit knowledge which are scattered and in unorganized state of knowledge. Multiple data source are collected and analyzed consisting the unstructured data comprises of set of interviews and explicit documents. These unstructured data are structured to develop the ontological model for Convocation Knowledge using Protégé. This research contribute in the development of new Ontological Model for Convocation Knowledge which includes four main concept (or classes) which are Convocation Series (ConvoSeries), Convocation Year (ConvoYear), Graduates (Graduates), and Special Award (Special_Award). These classes are linked to each other through relationship or also known as object properties – hasSeries, hasDate, hasYear, isInYear, hasSpecialAwardReceiver, hasProfesorEmeritus, hasHononaryDoctorate, haveGraduates, hasBachelorGraduates, hasMasterGraduates, hasPhDGraduates, hadReceivedOn, have2011Graduates, have2012Graduates, have2013Graduates. From this research also, a semantic web representation implementation will make these knowledge to be shared and re-used by others.

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TABLE OF CONTENTS

	Page
STUDENT'S DECLARATION	i
ABSTRACT	ii
ACKNOWLEDGEMENT	iii
TABLE OF CONTENTS	iv
LIST OF TABLES	vii
LIST OF FIGURES	viii
CHAPTER ONE: INTRODUCTION	
1.1. Introduction	1
1.2. Background of Study	1
1.3. Problems Statement	3
1.4. Research Questions	3
1.5. Research Objectives	4
1.6. Research Scope	4
1.7. Research Significance	4
1.8. Report Outline	5
CHAPTER TWO: LITERATURE REVIEW	
2.1. Introduction	6
2.2. Knowledge Management	6
2.2.1. Managing Knowledge in creating Organizational Memories	8
2.2.2. Knowledge Management Issue	10
2.3. Taxonomy	11
2.3.1. Form of Taxonomy	13
2.3.2. Taxonomy and knowledge management	16
2.3.3. Taxonomy roles	17
2.3.4. Taxonomy and Ontology	19
2.4. Ontology	19

CHAPTER 1

INTRODUCTION

1.1 Introduction

In this chapter, background of the research will be explained which will cover the current situation that related to the research topic. It will also describe current related finding by other researcher in the context of this research objective in general. In this chapter also, problem statement of the research will be addressed. Further, the research question, research objective and scope of the research will also be stated. Lastly, the significance of this research will be specified.

1.2 Background of Study

Knowledge played an important role in organization. Knowledge are continuously being generated throughout an organization, and to remain competitive and successful, the knowledge should be managed in the most effective manner (Sandhu, Jain and Ahmad, 2011). Sandhu et al. further stressed that, these knowledge should be managed by the organizations to retain their successfulness and remains competitive. Therefore, in Higher Education Institution (HEI), the knowledge that can be generated are more than other organizations. This knowledge includes explicit and tacit knowledge. One of the knowledge resides in the convocation ceremony in HEI.

Knowledge is important in any public or private sector organizations including HEI. Managing the knowledge has been a problem for many organizations. There were many barriers occurred when organization want to implement an effective