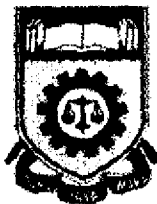


**MULTIMEDIA APPROACH TO UNDERSTAND  
ARTIFICIAL NEURAL NETWORK**

Thesis is presented in partial fulfillment for the award of the  
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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

“ In the name of ALLAH, the most Gracious and most Merciful and HIM alone is worthy of all praise”

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## **ABSTRACT**

This thesis to presents a new approach of understanding artificial neural network (ANN). The approach employed existing multimedia software that are now available which is effective for new learner to understand ANN. The nature of multimedia includes animation, sound, colour and user interaction. It is much more enjoyable than traditional forms of presenting information of ANN. The users are allowed to view the contents of selected subject and to control what and when the elements are delivered. An existing multimedia authoring tool such as “Computer Integrated Learning System (COMIL)” is chosen to creates this courseware. A simple programming is applied which easy to import file from picture file like bmp, tif, jpg, pcx, tga and gif animation and also easy to import file video and sound like avi for video and wav or midi for sound. It was found that based on this concept the learner will understand and remember the message faster and better.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Introduction

As modern computers become ever more powerful, scientist continue to be challenged to use machines effectively for tasks that are relatively simple for human. Nowadays engineers and scientists are trying to develop intelligent machine. Artificial Intelligent (AI) is present-day examples of such machines that have great potential to further improve the quality of our life. In the last decade, research and practical application in the field of AI has proliferated dramatically. The most popular AI techniques are artificial neural network (ANN) and Fuzzy logic. There has been resurgence of interest in ANN over the last few years, as researchers from diverse backgrounds have produced a firm theoretical foundation and demonstrated numerous applications of this rich field of study. However, the interdisciplinary nature of ANN complicates the development of a comprehensive, but introductory, treatise on the subject. ANN is a useful tool for solving many types of problems. These problems may be characterized as mapping (including pattern association and pattern classification), clustering and constrained optimization [1-3].

Previously the information about the ANN can be obtained in a variety of literatures. These methods are not efficient enough because learning about ANN in a coherent manner is very difficult and take more time for learner to understand. Due to the new development of modern technology in information technology (IT), ANN can be presented by using multimedia concept. Education and multimedia computing have a symbiotic relationship; education is shaping the development of multimedia