

# Abstract

## **An Adaptive Framework for Applying Cloud Computing in Virtual Learning Environment at Education a Case Study of “AASTMT”**

This study aims to provide a Cloud Computing (CC) proposed framework using Application programming interface (API's) to deliver connectivity and interaction of Software as a Service (SaaS) in Virtual Learning Environment (VLE) system at higher education institute. The framework is adopted and implemented to enhance the existing VLE to meet the incremental increasing of users' needs and expectations. Different research's methodologies and techniques are used to measure the students and instructors satisfaction, and to measure the impact of the adoption of CC on business value for VLE as well. In addition, the study identifies and explores the idea of covering the gap between the advance of adopting CC as a new technology and the benefits of implementing cloud techniques in education. The findings of implementing the adopted framework equate the study expectations, where the user's satisfaction significantly increased compared with the existing system. The users found that the system performance and response to their tasks are improved. Meanwhile, the users found that the new adopted system make it easier for them to achieve their academic activities and goals.