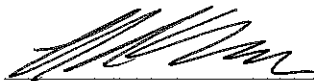



**SUNY POLYTECHNIC INSTITUTE**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**CERTIFICATE OF APPROVAL**

Approved and recommended for acceptance as a thesis in partial fulfillment of the  
requirements for the degree of Master of Science in Computer and Information Science


**Approved by**

 5/21/2018

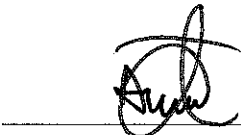
Dr. Larry Hash (Advisor)

 5/21/2018

Dr John Marsh

 5/21/2018

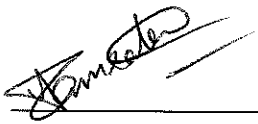
Dr. Joshua White

 8/22/2018

Dr. Ali Tekeoglu

## **Declaration**

I declare that this project is my own work and has not been submitted in any form for another degree or diploma at any university or other institute of tertiary education. Information derived from the published and unpublished work of others has been acknowledged in the text and a list of references is given.



Namrata Mahesh

May 2018