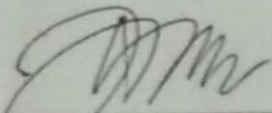


## APPROVAL PAGE

Approval of the School of Computing of Telkom University

I certify that this thesis satisfies all the requirements as a thesis for the degree of Master Informatics.

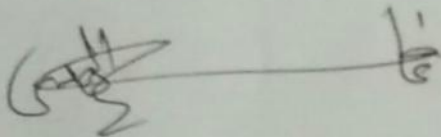
Date Aug 29, 2018



(Dana Sulisty Kusumo, Ph.D.)  
Head of Master Informatics

This is to certify that we have read this thesis and that in our opinion it is fully adequate, in scope and quality, as a thesis for the degree of Master of Informatics.

Date Aug 29, 2018



(Dr. Arief Fatchul Huda, S.Si., M.Kom.)  
Supervisor

Examining Committee Members.

Date Aug 29, 2018

(Ir. Jimmy Tirtawangsa, M.Sc., Ph.D) (Chairperson of the jury)

(Dana Sulisty Kusumo, Ph.D) (jury's member)

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