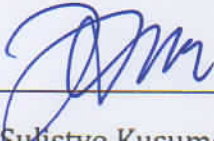


## APPROVAL PAGE

Approval of the Graduate School of Telkom University

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

Date : 3 February 2018

  
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(Dana Sulistyoko 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 Informatics.

Date : 9/2/2018

  
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(Dade Nurjanah, Ph.D)

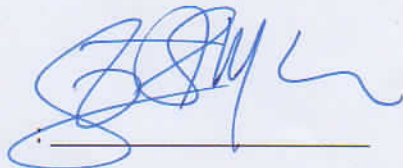
Supervisor

Examining Committee Members,

Date : 9/2/2018


(Jimmy Tirtawangsa, Ph.D)

(Chairperson of the jury)

  
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(Dana Sulistyoko Kusumo, Ph.D)

(Jury's member)

  
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(Yanti Rusmawati, Ph.D)

(Jury's member)

  
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