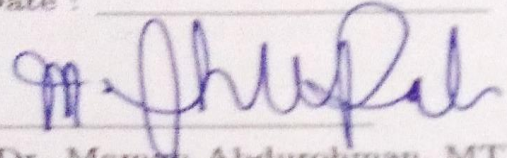


APPROVAL

Approval of the Graduate School of Telkom University

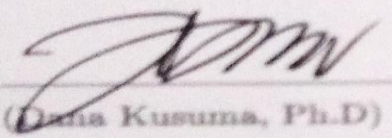
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(Dr. Maman Abdurrohman, MT)
Dean of the School of Computing, Telkom University

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

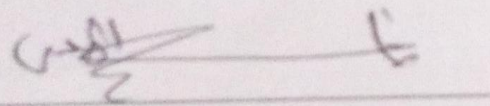
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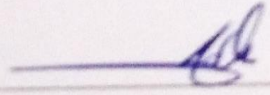
(Dana Kusuma, Ph.D)
Head of Graduate School of Informatics Engineering

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 Engineering.

Date : 7 Agustus 2017



(Dr. Arief Fatchul Huda)
Supervisor(I)

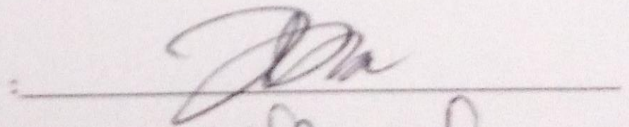


(Kiki Maulana Adhinugraha, Ph.D)
Supervisor(II)

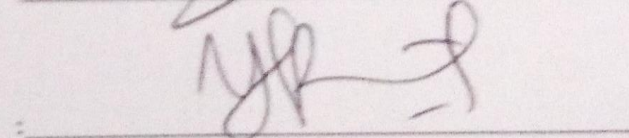
Examining Committee Members :

Date : 7 Agustus 2017

(Dana S. Kusumo, Ph.D)
(Chairperson of the jury)



(Yanti Rusmawati, Ph.D)
(jury's member)



(Dr. Putu Harry Gunawan)
(jury's member)

