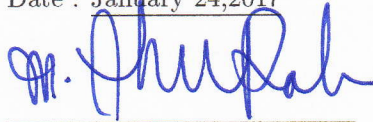


APPROVAL

Approval of the Graduate School of Telkom University

Date : January 24,2017



(Dr. Maman Abdurohman)
Dean School of Computing

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

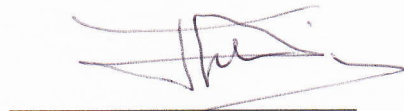
Date : January 24,2017



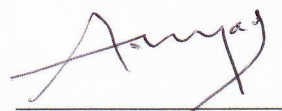
(Dana Sulisty Kusumo, Ph.D)
Head of Graduate School of Informatics Engineering

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 : January 24,2017



(Prof. Dr. The Houw Liong)
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(Dr. Arief Fatchul Huda)
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