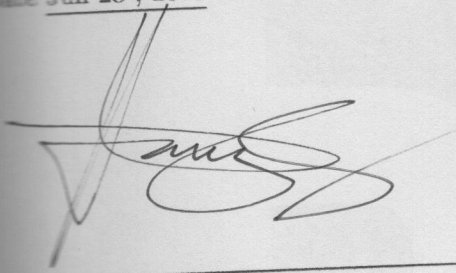


APPROVAL PAGE

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 Jun 28 , 2019

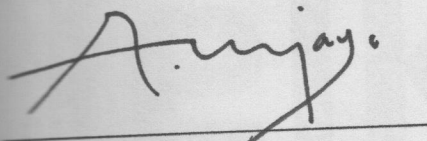


(Parman Soekarno, Ph.D.)

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.

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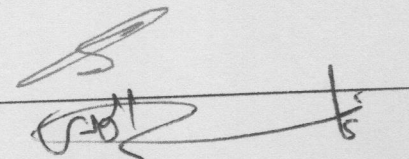
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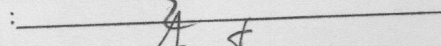
Examining Committee Members.

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Moch. Arif Bijaksana, Ph.D. (Chairperson of the jury) :



Arif Fatchul Huda, Ph.D. (jurys member) :



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