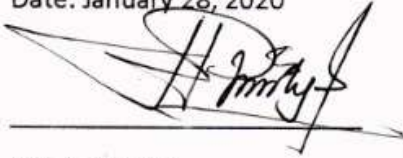


APPROVAL

Approval of the School of Computing of Telkom University

I certify that this thesis satisfies all the requirement as a thesis for the degree of Master of Computing.

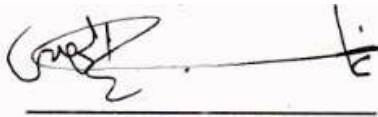
Date: January 28, 2020



(Dr. Setyorini)

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 Computing.

Date: January 28, 2020



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

Supervisor

Examining Committee Members:

Date: January 28, 2020

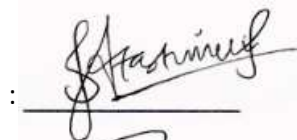
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