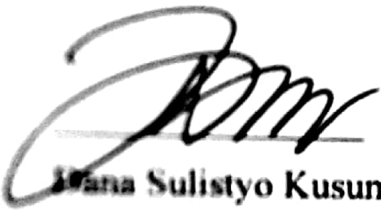


APPROVAL

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 28/8/2017



Wana Sulisty 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 of Informatics.

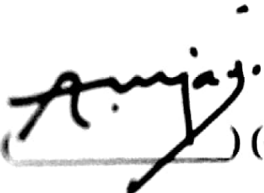
Date 28/8/2017



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