

## 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 Dec 31 , 2019

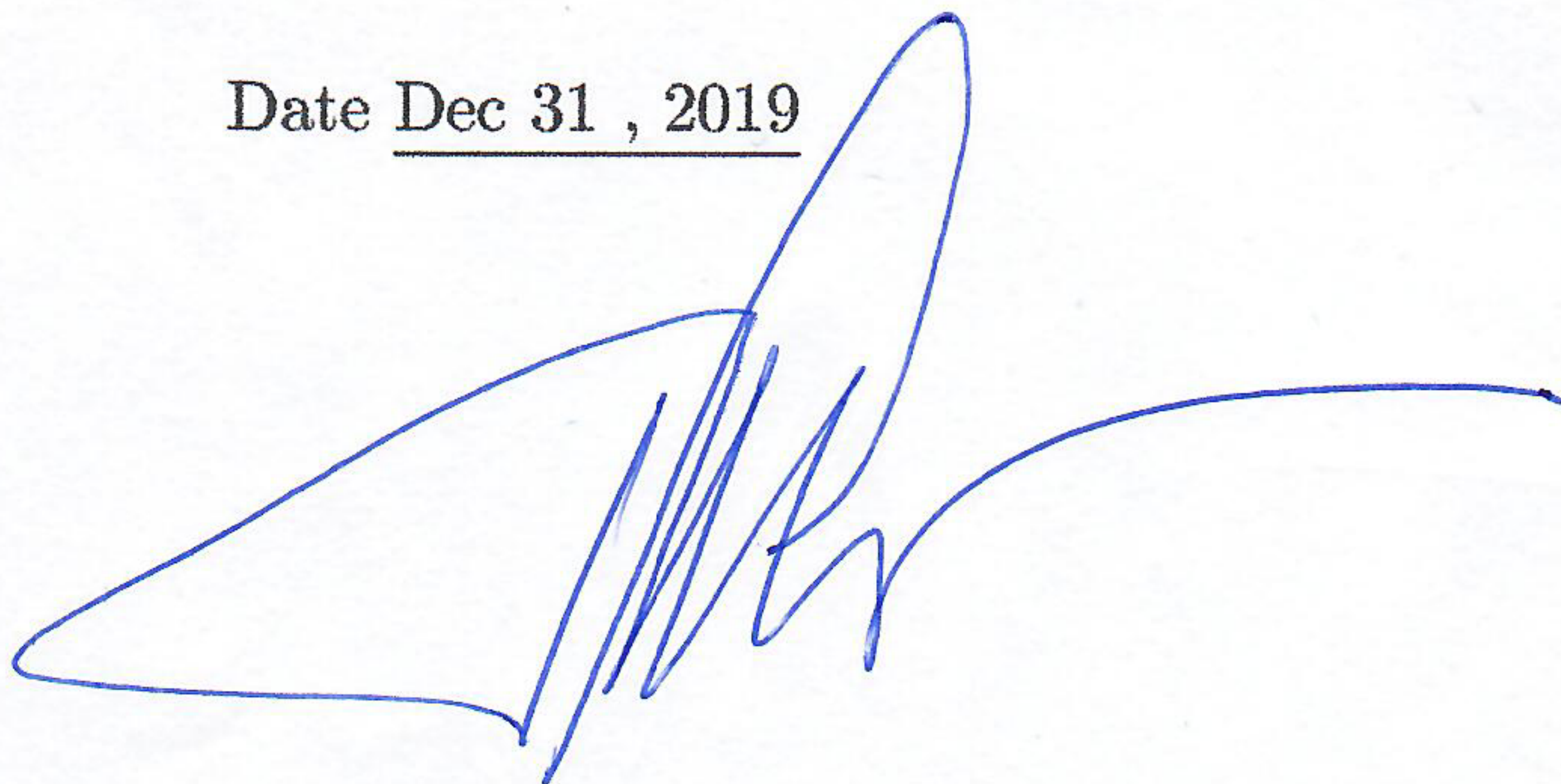


(Dr. Setyorini)

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 Dec 31 , 2019



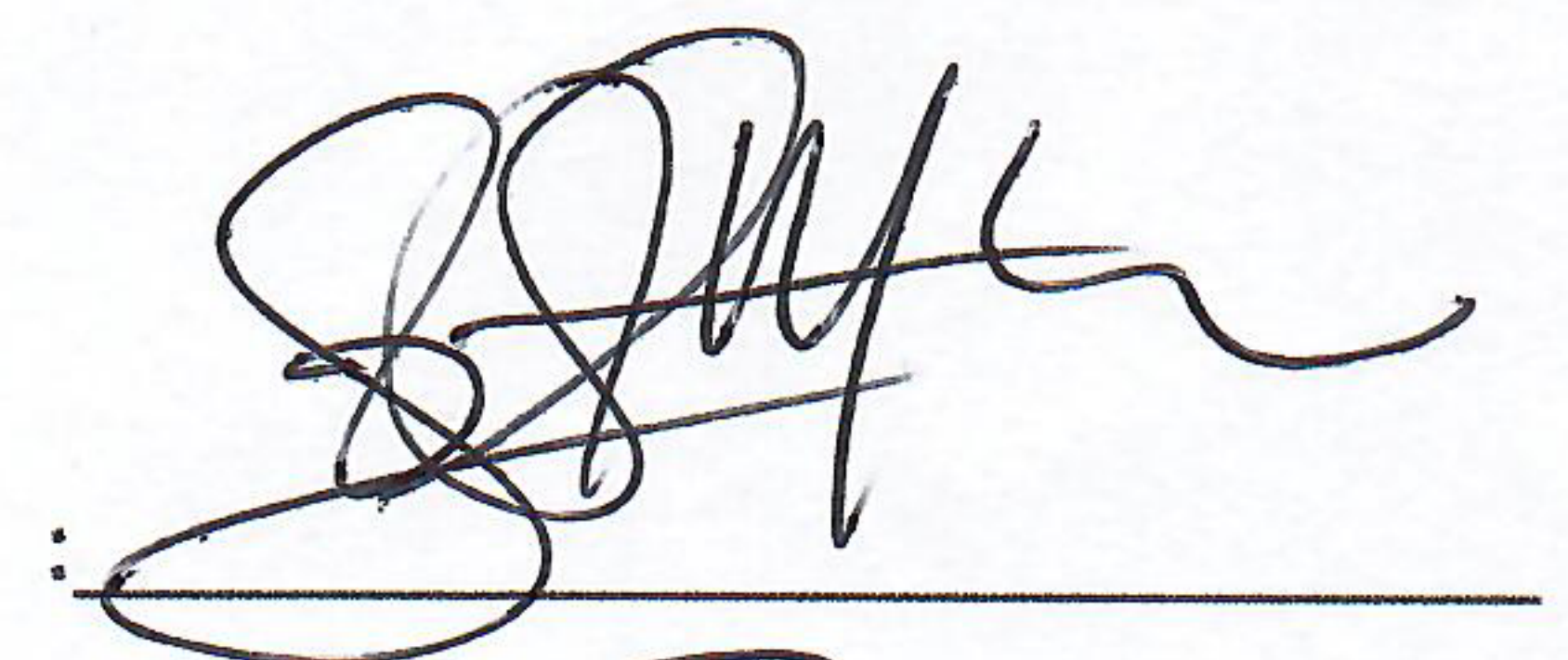
(Hertog Nugroho, Ph.D.)

Supervisor

Examining Committee Members.

Date Dec 31 , 2019

(Jimmy Tirtawangsa, Ph.D.) (Chairperson of the jury)



(Wikky Fawwaz Al Maki, Ph.D.) (jury's member)



(Tjokorda Agung Budi W., S.T., M.T.) (jury's member)

