APPROVAL PAGE

Approval of the School of Computing of Telkom University Date Aug03 , $2015\,$

| (Dr. Maman Abdurohman) | |
|---|--|
| Dean School of Computing | |
| I certify that this thesis satisfies all the re | quirements as a thesis for the degree of Master |
| Informatics. | |
| Date $\underline{\text{Aug } 03}$, $\underline{2015}$ | |
| (Dana Sulistyo Kusumo, Ph.D.) | |
| Head of Master Informatics | |
| | esis and that in our opinion it is fully adequate, |
| in scope and quality, as a thesis for the de | |
| Date Aug 03, 2015 | |
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