ABSTRACT

Muhammad Aldi Azmy, *Data Privacy with Anatomy Model*. Undergraduate Thesis. Jakarta, Informatics and Computer Engineering Study Program, Faculty of Engineering, Universitas Negeri Jakarta, 2017. Supervisor: Widodo, M.Kom. dan Bambang P. Adhi, S.Pd, M.Kom.

Publication of data are inseparable in some institutions, both private and public. However, a gap appears because there are some sensitive data which to become disgrace in individual data owners were published. The best way to solve these problems is using *Privacy-Preserving Data Publication* (PPDP) approach. Various models in PPDP have been applied, but there are some defects such as higher *Information Loss* are generated from these model. Alternative PPDP models are needed to correct the deficiencies of commonly applied models in PPDP, i.e. *Anatomy* model. The purpose of this research is to know the result of *Information Loss* or how much information is lost due to *Anatomy* model and how to provides sensitivity data privacy. The method used in this research is *Engineering* method with *Non-Participant Observation* data collecting technique; using data from *UC Irvine (UCI) Machine Learning Repository*. There are three main phase in this research, namely: *Pre-Process* for collecting and sorting data, *Processing* for anonymizing data, and *Post-Process* to conclude the result from this research. Obtain an average *Information Loss* for *Anatomy* model in this research is 9.154,519 for all case. Those cases consist of a number of data in a group or cluster (*k*) and various types of sensitive attribute in a cluster (*p*); with *Execution Time* falls in around 35 second, as the result of separation between sensitive data and non-sensitive data (*Explicit Identifier* and *Quasi-Identifier*)

Keywords: Data Privacy, Anatomy, Information Loss