

ABSTRACT

Podzihun N.S. Researching methods for evaluating data quality in information management systems.

The thesis is submitted for the Master Degree in specialism 8.05010201 – Computer Networks and Systems. – Ternopil Ivan Pul'uj National Technical University, Ternopil, 2014.

The thesis is devoted to research the methods for evaluating data quality in information management systems. Data quality is a key component of the quality and usefulness of the information derived from the data. Most business processes is depend on the quality of the data. Characteristics of the data quality that defined in standard ISO/IEC 25012 was analyzed and the function to measure this data was examined. Formal description of the model data quality evaluation was done. Based on data quality characteristics described in the standard ISO/IEC 25012, highlighted attributes for each characteristic of quality and created the model of the data quality. Methods of evaluating the data quality on the integral indicator and each characteristics was explained. Software tool that was developed for support the evaluation data, leading to improved efficiency of obtaining estimates for each characteristic.

Keywords: attribute, information system, method for assessing the quality, metrics of quality, quality model, evaluation, quality score, quality characteristics, quality.