

Formalization of the expert knowledge for incident`s management of information system based on the algebra of ontologies approach

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Abstract: This report is devoted to a solution of the problem of collecting and formalization of the expert knowledge representing incidents received during the operation of information systems and designed to address the problem of increasing the efficiency of their management. As perspective approach use of algebra of ontology for creation of the ontologic systems using knowledge from several problem areas is offered. The organization of objects of subject domain is carried out with use of classification of incidents for information systems with use of structural approach and the qualifier based on the OSI/ISO model. In the report the basic principles of development of the system of management of incidents with use of graph model of relationships of cause and effect between objects as a part of information systems are also stated.