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THE USE OF A CONCEPT LATTICE FOR CONSTRUCTING THE ROLE-BASED ACCESS CONTROL

In this paper, we present an algorithm for design and creation of the role-based access control (RBAC). This algorithm is derived by the formal concept analysis (FCA). We prove that the constructed model meets requirements of the RBAC. We use the suggested algorithm for optimization of an existing role-based hierarchy.

Keywords: role-based access control, formal concept analysis, concept lattice, role-based hierarchy.

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