
Scalable and Efficient Reasoning for Enforcing Role-Based Access Control

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Overview

- ❑ Motivation
- ❑ Contributions
- ❑ Approach
- ❑ Theoretical Background:
 - RBAC, TRBAC, Description Logics, SWRL

- ❑ Detailed Overview of Approach and Optimizations
- ❑ Example
- ❑ Experimental Results

Motivation

1. Organizations tend to generate large amount of data
2. Users need only partial access to resources
3. n_u users and n_r roles = at most $n_u \times n_r$ mappings
4. Scalable access control model and easy management
5. Handle heterogeneity in information system