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(57) Abstract :

The present invention discloses a system (100) for implementing an access control framework in Information Centric Networking (ICN). The system (100) comprises a server (106) that establishes secure communication channels with one or more computing devices (110) and one or more users (112). The system (100) includes a processor (102) and a memory (104) containing a set of instructions to define access control policies based on user (112) roles for a variety of content. When the one or more users (112) request access to specific content through the one or more computing devices (110), the system (100) receives the content's attributes from the users (112). The received attributes are then compared against the defined access control policies to determine whether the one or more users (112) have the necessary access permissions. Subsequently, the system (100) grants or denies access control for the requested content based on the outcome of the comparison, thereby ensuring secure and authorized content retrieval in ICN environments.

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