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### **Abstract**

This paper covers the basics of cloud computing, major challenges, need for new security models, and focuses on eye-gaze based authentication technique to secure the critical information stored on cloud. The paper provides an approach for implementation of gaze technology in cloud computing. The gaze-based authentication model involves the concepts of neural networks, Image processing, gaze estimation and feature detection along with the cryptographic concepts.

**Refer**

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### Index Terms

Computer Science

Distributed Systems

### Keywords

Cloud Computing   Iaas   Paas   Saas   Static   Dynamic   Gaze Estimation   Image Processing

Feature Detection

Hough Transform.