**Paper No: PU-SOE-CSE-37**

**Articulation Point Based Quasi Identifier Detection for Privacy Preserving in Distributed Environment**

**Ila Chandrakara,** Vishwanath R Hulipalledb

a. Presidency University & Research Scholar, Bangalore, India

b. School of C&IT, REVA University, Bangalore, India

**Abstract**

These days, huge data size requires high-end resources to be stored in IT organizations premises. They depend on cloud for additional resource necessities. Since cloud is a third-party, we cannot guarantee high security for our information as it might be misused. This necessitates the need of privacy in data before sharing to the cloud. Numerous specialists proposed several methods, wherein they attempt to discover explicit identifiers and sensitive data before distributing it. But, quasi-identifiers are attributes which can spill data of explicit identifiers utilizing background knowledge. Analysts proposed strategies to find quasiidentifiers with the goal that these properties can likewise be considered for implementing privacy but, these techniques suffer from many drawbacks like higher time consumption and decreased data utility. The proposed work overcomes this drawback by extracting minimum required quasi attributes with minimum time complexity.

**Keywords:**

Articulation point, Privacy Preserving, Quasi Identifier.

**Publication Details:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Journal Name** | **Vol.** | **Month & Year**  | **Page No.** | **Publisher** | **Scimago Ranking** |
| International Journal of Communication Networks And Information Security (IJCNIS) | 12 | April. 2020 | 77-82 | [Institute of Information Technology, Kohat University of Science and Technology](https://www.scimagojr.com/journalsearch.php?q=Institute%20of%20Information%20Technology,%20Kohat%20University%20of%20Science%20and%20Technology&tip=pub) | Q3 |