



Research Article



## A Framework for Solving Identity Disclosure Problem in Collaborative Data Publishing

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### DOI:

<http://dx.doi.org/>

10.17812/IJRA.2.6(52)2015

### Manuscript:

Received: 1<sup>st</sup> May, 2015

Accepted: 31<sup>st</sup> May, 2015

Published: 20<sup>th</sup> June, 2015

### Publisher:

Global Science Publishing  
Group, USA

<http://www.globalsciencepg.org/>

### ABSTRACT

Identity disclosure has been a problem in data publishing. When it comes to data publishing in collaboration with multiple parties, this problem is more. There might be insider attacks meant for obtaining identity of objects in the given data sources provided by data providers. Sensitive details are to be protected when data is being published. Many anonymization algorithms came into existence. One such good algorithm is m-privacy proposed by Goryczka et al. In this paper we build a framework that solved identity disclosure problem in collaborative data publishing. We build a prototype application that uses m-Privacy concept which is applied to horizontally partitioned data and also set-valued data. Experimental results revealed that the prototype is useful for collaborative data publishing without allowing identity disclosure attacks.

**Keywords:** Data mining, privacy preserving data mining, collaborative data publishing.

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### IJRA - Year of 2015 Transactions:

Month: April - June

Volume – 2, Issue – 6, Page No's:292-295

Subject Stream: Electronics

**Paper Communication:** Through Conference of ICETET-2015

**Paper Reference Id:** IJRA-2015: 2(6)292-295