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*Dexter: A Browser-based Data
Explorer for End Users*

**By: Abhijeet Mohapatra and Dr.
Sudhir Agarwal**

Abstract:

We present Dexter, a browser-based, general purpose data exploration system for end users. Dexter enables end users to easily query across multiple Web-accessible heterogeneous (semi-) structured data sources with higher expressivity than is usually directly supported by the sources. A novelty of Dexter lies in the client-side evaluation of end-user queries while exploiting the querying capabilities of the sources and communicating directly with the sources whenever possible.

With Dexter, an end user can create structured data (as tables) by pasting Web-page fragments, importing data from CSV, JSON and XML formats, and connecting to remote APIs and MySQL databases. Each user's tables are stored locally inside his/her browser and can be managed through Dexter's UI. Dexter allows users to query their tables in Datalog extended by sets and aggregates in an ad-hoc fashion.

Speakers' Bios:

Abhijeet Mohapatra is a PhD candidate in the Stanford Logic Group advised by Professor Michael Genesereth. His work focuses on aggregates in logic programming and data integration.

Sudhir Agarwal is a Visiting Scholar in the Stanford Logic Group. Sudhir holds a Master's in Computer Science from University of Dortmund in Germany, a PhD in Computer Science from University of Karlsruhe in Germany, and a PostDoc (Habilitation) in Applied Informatics from Karlsruhe Institute of Technology in Germany.

**Thursday, Nov 20 @ 3:30 PM
ITC (540 Windsor St.) , ITC 317**