



# Interactive Visualization of Very Large Graphs

**Maria K. Krommyda**

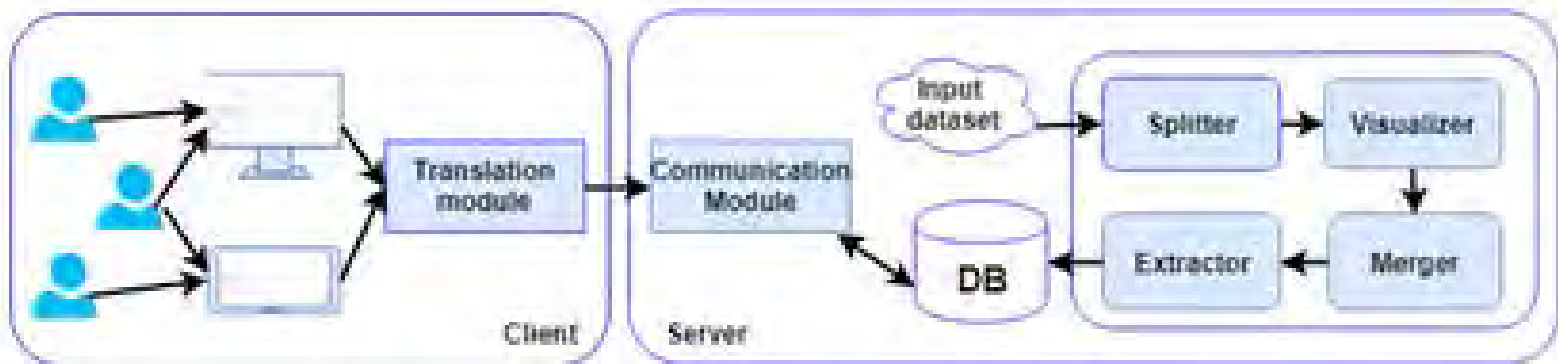


# Challenges

- Linked Open Data initiative has made available large linked datasets that offer invaluable knowledge;
- RDF Data model has provided the standardization required;
- Information is available and of interest to a wide audience
- Information is also inaccessible especially to people with limited knowledge of the Semantic web;
- Very large datasets with millions of nodes;
- Diverse datasets with different characteristics & data formats.

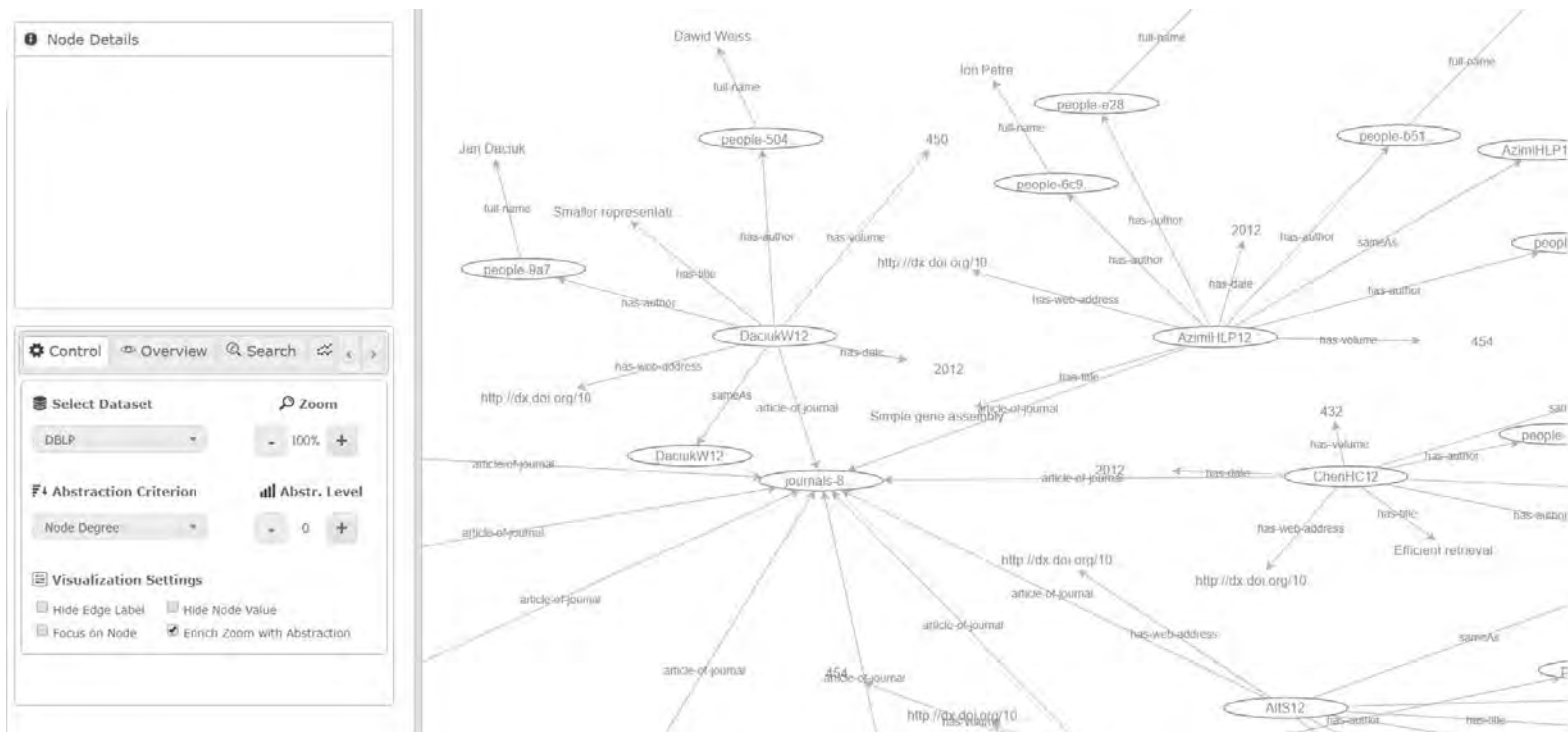
# Contributions

- Innovative pre-processing technique;
- Scalability to dataset with hundreds of millions of edges;
- Interactive visualization without loss of information;
- Data exploration & navigation;
- Filtering & aggregation functions;
- No requirements regarding the input dataset;
- Available through commodity devices.



# System Functionalities

- Overview of the input dataset; aggregation;
- Interactive visualization;
- Keyword search;
- Customizable filtering and
- Interactive keyword search;
- Path navigation;
- On the fly sub-graph isolation.





**Thank you**  
**Maria K. Krommyda**

