

Oak Ridge Graph Analytics for Medical Innovation (ORiGAMI)

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Copyright Summary

In this era of data-driven decisions and discovery where Big Data is producing Bigger Data, data scientists at the Oak Ridge National Laboratory are leveraging unique leadership infrastructure to develop scalable algorithms for semantic, logical and statistical reasoning with Big Data (i.e., data stored in databases as well as unstructured data in documents). The ORiGAMI technology is a futuristic next-generation knowledge-discovery framework that is: (a) knowledge nurturing (i.e., evolves seamlessly with newer knowledge and data), (b) smart and curious (i.e., using information-foraging and reasoning algorithms to digest content) and (c) synergistic (i.e., interfaces computers with what they do best to help subject-matter-experts do their best. The framework has been demonstrated on the National Library of Medicine's SEMANTIC MEDLINE (archive of medical knowledge since 1994).

Intellectual property related to ORiGAMI includes a patent application (Semantic, Logical and Statistical Reasoning with Knowledge Graphs, US Patent Application 15/004,402, filed January 22, 2016) and computer code.

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