(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/10/2023

(43) Publication Date : 24/11/2023

(54) Title of the invention : SYSTEM AND METHOD FOR CREATING DYNAMIC RELATIONSHIP MAPS AMONG DIVERSE OBJECTS

(57) Abstract :

The present disclosure relates to system (100) and method (200) are presented for generating dynamic relationship maps among nonhomogeneous objects. The system comprises a processor (110) that receives data representing these objects, each with distinct attributes. A memory (120) stores instructions which, when executed by the processor (110), enable the use of machine learning and data analysis algorithms, including clustering, centrality, and community detection algorithms, to identify relationships based on the objects' attributes. The resulting dynamic relationship map is displayed on a display (130), employing a force-directed layout. This map incorporates interactive features, such as zooming, panning, filtering, and highlighting, allowing users to explore relationships in real-time. The system is also capable of updating the map in response to changes in object relationships. The data for the objects can be sourced from various formats, including databases, spreadsheets, and JSON files.

No. of Pages : 17 No. of Claims : 8