

Surface to the Deeper: A Universal Entity Alignment Approach Focusing on Surface Information

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Abstract : Entity alignment (EA) tasks in knowledge graphs often play a pivotal role in the integration of knowledge graphs, where structural differences often exist between the source and target graphs, such as the presence or absence of attribute information and the types of attribute information (text, timestamps, images, etc.). However, most current research efforts are focused on improving alignment accuracy, often along with an increased reliance on specific structures -a dependency that inevitably diminishes their practical value and causes difficulties when facing knowledge graph alignment tasks with varying structures. Therefore, we propose a universal knowledge graph alignment approach that only utilizes the common basic structures shared by knowledge graphs. We have demonstrated through experiments that our method achieves state-of-the-art performance in fair comparisons.

Keywords : knowledge graph, entity alignment, transformer, deep learning

Conference Title : ICWAIM 2024 : International Conference on Web-Age Information Management

Conference Location : Lagos, Nigeria

Conference Dates : August 08-09, 2024