

**DATA-DRIVEN KNOWLEDGE INFERENCE AND VALUE ASSESSMENT
METHOD AND SYSTEM FOR CROSS-DOMAIN INTELLIGENT ASSETS
ABSTRACT**

5 The present invention provides a data-driven knowledge inference and value
assessment method and system for cross-domain intelligent assets, and relates to the
technical field of intelligent assets. The method includes: extracting multi-domain data
features of the intelligent assets by a deep learning module, and constructing a
cross-domain intelligent asset knowledge graph; parsing a user assessment target by a
10 pre-training language module, retrieving related assets in the knowledge graph, and
performing knowledge inference by an attention mechanism and a graph inference
algorithm; and a value assessment module trained based on reinforcement learning
generating a final assessment value and assessment report containing a confidence interval
in combination with a time-order prediction algorithm. According to the present invention,
15 multi-source heterogeneous data can be effectively fused to realize knowledge inference
and value assessment of the cross-domain intelligent assets, thereby improving assessment
efficiency and accuracy.

20 Drawing accompanying abstract: Fig. 1