

# Document Validation Report for ReDKG



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**Correspondence: Yes**

**Percentages: 92.0%**

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## **Conclusion:**

The codebase closely matches the Russian documentation's experimental and architectural description. The documentation specifies knowledge graph encoding methods (TransE, DistMult, ComplEx, RotatE, and Ta-TransE for dynamic graphs), procedures for training with reinforcement learning and vector representations, and evaluation for decision support. The code implements all listed KGE models, provides dataset loaders (including for ogbl-biokg), supports synthetic/random data generation, and includes training and testing pipelines for both static and dynamic knowledge graphs. It also implements evaluation metrics like MRR and Hits@k, environment simulation, hypergraph support, and detailed visualization. However, there is no direct evidence of full dynamic (temporal) graph support for Ta-TransE or reinforcement learning (RL) experimentation with dynamic KGs—the RL pipeline exists, but code specifically for Ta-TransE on dynamic graphs is only implied, not exhaustively shown. Result reproducibility is strong, given scripts, but minor documentation-to-code gaps on dynamic graph RL keep this below perfect.