
Graph Based Knowledge Representation Computational Foundations

graph-based formalisms for knowledge representation - iis - graph-based formalisms provide an intuitive and easily understandable vehicle for knowledge representation. in this paper several existing graph-based formalisms are described. furthermore, a new graph-based formalism for knowledge representation is defined. basic concepts for graphical **graph based knowledge models - university of belgrade** - graph as input, ... consisting of the most important entities, their most important related entities, and their respective types. this entity graph is drawn from a larger yahoo! knowledge graph, a unified knowledge base that provides key information about all the entities we care about, and how they relate to each other." **a review of relational machine learning for knowledge graphs** - a review of relational machine learning for knowledge graphs maximilian nickel, kevin murphy, volker tresp, evgeniy gabrilovich abstract—relational machine learning studies methods for the statistical analysis of relational, or graph-structured, data. in this paper, we provide a review of how such statistical models can be **behavior language processing with graph based feature generation for fraud detection in online lending - snapanford** - and then mapped to •nancial risk knowledge graph which is pre-de•ned according experts' domain knowledge of online lending. „e speci•ed knowledge graph serves as a ...exible data integration layer. „e third module is an automated feature extracting layer, which contains a set of feature adapters designed for integrating **the more you know: using knowledge graphs for image classification - arxiv e-print archive** - the more you know: using knowledge graphs for image classification kenneth marino, ruslan salakhutdinov, abhinav gupta carnegie mellon university 5000 forbes ave, pittsburgh, pa 15213 fkdmarino, rsalakhu, abhinavgg@csu abstract one characteristic that sets humans apart from modern learning-based computer vision algorithms is the ability to **semantic parsing via staged query graph generation: question answering with knowledge base - microsoft** - semantic parsing via staged query graph generation: question answering with knowledge base ... knowledge base and the design of our query graph. sec. 3 presents our search-based approach for gen-erating the query graph. the experimental results ... base in this form is often called a knowledge graph family guy cvt2 meg griffin lacey chabert 1 ... **graph based knowledge representation and reasoning: practical ai applications - centre national de la recherche scientifique** - graph-based krr, either for fol reasoning for the semantic web, or for rea-soning in multi-agents systems. this line of work (graph-based krr) was pursued further when arriving at lirmm where the graph-based formalisms i have investigated can be viewed from two perspectives: a paradigm perspective and an application perspective. **graph based knowledge models - ain** - gigantic graph-based knowledge bases that • contain structured data extracted from web pages • continuously grow and evolve so that their content properly reflects the data and knowledge of the web features: • based on automated learning systems • combine different machine learning methods to assure continuous **knowledge graph embedding based question answering** - conditions described above, we now formally define the knowledge graph embedding based question answering problem. given a knowledge graph g associated with all its predicates' and entities' names and embedding representations p & e , the relation function $f(\cdot)$, as well as a set of simple questions q associated **knowledge graph refinement: a survey of approaches and evaluation methods - semantic-web-journal** - an existing knowledge graph and try to increase its coverage and/or correctness by various means. since such works are reviewed in this survey, the focus of this survey is not knowledge graph construction, but knowledge graph refinement. for this survey, we view knowledge graph construc-tion as a construction from scratch, i.e., using a set of **t-know: a knowledge graph-based question answering and infor-mation retrieval system for traditional chinese medicine - aclweb** - t-know is a knowledge service system based on the constructed knowledge graph of tradi-tional chinese medicine (tcm). using authorized and anonymized clinical records, medicine clinical guidelines, teaching materials, classic medical books, academic publications, etc., as **graph-based reasoning and reinforcement learning for improving q/a performance in large knowledge-based systems - welcome to qrg** - graph-based reasoning and reinforcement learning for improving q/a performance in large knowledge-based systems abhishek sharma and kenneth d. forbus qualitative reasoning group, northwestern university evanston, il 60208, usa {a-sharma, forbus}@northwestern abstract learning to plausibly reason with minimal user intervention **cygraph: graph-based analytics and visualization for cybersecurity - center for secure information systems** - the resulting knowledge graph captures the com- ... cygraph: graph-based analytics and visualization for cybersecurity 3 article in press. attack responses. it helps prioritize exposed vulnerabilities, alone and in com- ... cygraph: graph-based analytics and visualization for cybersecurity 5 article in press. graph database (neo4j, 2016). neo4j ... **knowledge graph entity representation and retrieval** - research in knowledge graph entity representation methods and retrieval models. the rst part of this tutorial introduces state-of-the-art meth-ods for entity representation, from multi- elded documents with at and hierarchical structure to latent dimensional representations based on ten- **graph-based text database for knowledge discovery** - of subject graphs. we develop a graph-based text database, which is based on the model, and an interactive

knowledge discovery system. trials of the system show that it allows the user to interactively and intuitively discover knowledge in webpages by combining text handling operations defined on subject graphs in various orders.

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