



# FIELDS INSTITUTE MONOGRAPHS

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## Efficient Graph Representations

Jeremy P. Spinrad



American Mathematical Society

# Efficient Graph Representations

**Anil K. Bera, C. Gutenbrunner, Dilip Chhajed, Eloise Coupey, George Edward Monahan, Hun Y. Park, Jean-François Hennart, José Antônio Rosa, Louis Kuo Chi Chan, Narayan Raman, Timothy L. Smunt, William C. Bogner, Asani Sarkar, Roger W. Koenker**

## **Efficient Graph Representations:**

**Efficient Graph Representations.** Jeremy P. Spinrad, 2003-01-01 [Efficient Graph Representations](#) Jeremy P. Spinrad, 2003-01-01 The book deals with questions which arise from storing a graph in a computer. Different classes of graphs admit different forms of computer representations and focusing on the representations gives a new perspective on a number of problems. For a variety of classes of graphs the book considers such questions as existence of good representations, algorithms for finding representations, questions of characterizations in terms of representation and how the representation affects the complexity of optimization problems. General models of efficient computer representations are also considered. The book is designed to be used both as a text for a graduate course on topics related to graph representation and as a monograph for anyone interested in research in the field of graph representation. The material is of interest both to those focusing purely on graph theory and to those working in the area of graph algorithms. **Effective and Efficient**

**Representation Learning for Graph Structures** Ting Chen, 2019 Graph structures are a powerful abstraction of many real world data such as human interactions and information networks. Despite the powerful abstraction, graphs are challenging to model due to the high dimensional, irregular, and heterogeneous characteristics of many real world graph data. An essential problem arose is how to effectively and efficiently learn the representation for objects in graphs. In this thesis, both the effectiveness as well as efficiency aspects of the graph representation learning problem are addressed. Specifically, we start by proposing an effective approach for learning heterogeneous graph embedding in an unsupervised setting. Then this is generalized to a semi-supervised scenario where label guidance is leveraged. The effective graph representation learning models are followed by efficient techniques where we propose efficient sampling strategies to improve the training efficiency for content-rich graph embedding models. Finally, to reduce storage and memory cost of the embedding table used in various models, we introduce a framework based on KD code which can compress the embedding table in an end-to-end fashion. We conduct extensive experiments on various real-world tasks on graph data, e.g., anomaly detection, recommendation, and text classifications, and the empirical results validate both effectiveness as well as efficiency of our proposed algorithms.

**Graph-theoretic Concepts in Computer Science**, 2005 **Graph-theoretic Concepts in Computer Science** Manfred Nagl, 1990 The aim of this workshop series is to contribute to integration in computer science by applying graph theoretic concepts. Commonalities between various fields of specialization in computer science may be detected by applying graph theoretic concepts. The workshops are unusual in that they combine theoretical aspects with practice and applications. Applications dealt with in this volume include the use of graph theoretic concepts in distributed and parallel computation, VLSI, CAD, software engineering, computer graphics, data structures, and computational geometry. MU TOC PP *Leveraging Graph Neural Networks for Efficient Word Representations* Ryan Himes, 2024 Sentence structure can consist of a complex structure of tokens and relationships between tokens which can be hard to represent with only a sequential representation.

To capture more information about sentence structure we propose representing a sentence as a graph of tokens and relationships between tokens to learn dynamic word embeddings The graph structure is used as input for a graph neural network GNN to learn syntactic and semantic information about the sentence by learning a next word prediction task to learn the embeddings We also experiment with using the graph structure as input for different natural language classification tasks Results show that using the GNN ARMAConv on natural language classification tasks can increase accuracy over a sequential representation Also using the newly trained dynamic word embeddings achieves a higher validation accuracy compared to all other word embeddings tested on the tweet disaster classification data set

*PBHD: an Efficient Graph Representation for Floating Point Circuit Verification* Carnegie-Mellon University. Computer Science Dept, Yirng-An Chen, Randal E. Bryant, 1997 Abstract BMDs HDDs and K BMDs provide compact representations for functions which map Boolean vectors into integer values but not floating point values In this paper we propose a new data structure called Multiplicative Power Binary Hybrid Diagrams PBHDs to provide a compact representation for functions that map Boolean vectors into integer or floating point values The size of the graph to represent the IEEE floating point encoding is linear with the word size The complexity of floating point multiplication grows linearly with the word size The complexity of floating point addition grows exponentially with the size of the exponent part but linearly with the size of the mantissa part We applied PBHDs to verify integer multipliers and floating point multipliers before the rounding stage based on a hierarchical verification approach For integer multipliers our results are at least 6 times faster than BMD s Previous attempts at verifying floating point multipliers required manual intervention We verified floating point multipliers before the rounding stage automatically

*Mathematical Reviews* ,2006 **Feature Based Representations for Mid- and High-level Vision** Tang Feng, 2008 *Tools and Algorithms for the Construction and Analysis of Systems* ,2004 *Data Structures, Algorithms, and Performance* Derick Wood, 1993 Consistently using a framework of abstract data types this book describes all the important data structures and the algorithms that act upon them The book has two underlying goals to present the techniques necessary to analyze the performance of data structures and algorithms and to describe the methods used to determine the good and bad features of data structures

**Graphs: Or The Graphical Representation of Algebraic Functions** Charles Henry French, 1904 **Algorithms and Computation** ,2005 *Software Engineering* Anneliese Von Mayrhauser, 1990 This book is a solid introduction to the field of software engineering covering a wide range of topics It is intended as a primary textbook for a two semester course sequence on software engineering in a computer science curriculum The first course teaches methods and techniques for developing software and the second introduces the student to the management of software engineering projects While intended for courses at the upper undergraduate or first year graduate level this book is also a reliable handbook of software engineering for the practicing professional

**Advances in Case-based Reasoning** ,1996 *1986 Proceedings* Harold S. Stone, 1986 *1986 Proceedings* IEEE Computer

Society,1986      **MTT 2007** Kim Gerdes,2007      **Core Competence and Competitive Advantage** Anil K. Bera,C.  
Gutenbrunner,Dilip Chhajed,Eloise Coupey,George Edward Monahan,Hun Y. Park,Jean-François Hennart,José Antônio  
Rosa,Louis Kuo Chi Chan,Narayan Raman,Timothy L. Smunt,William C. Bogner,Asani Sarkar,Roger W. Koenker,1992  
*Encyclopedia of Data Warehousing and Mining* John Wang,2009 This set offers thorough examination of the issues of  
importance in the rapidly changing field of data warehousing and mining Provided by publisher

## The Enigmatic Realm of **Efficient Graph Representations**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Efficient Graph Representations** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of people who partake in its reading experience.

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