

ieee transactions on knowledge and data engineering

ieee transactions on knowledge and data engineering is a premier scholarly journal that publishes high-quality research articles in the fields of knowledge management, data engineering, and information systems. This journal serves as a critical resource for academics, industry professionals, and researchers interested in the latest developments in data processing, knowledge discovery, machine learning, and database systems. Throughout this article, the focus will be on the scope, impact, submission process, and key topics covered by the IEEE Transactions on Knowledge and Data Engineering. Additionally, this article will explore the journal's role in advancing technological innovation and the dissemination of cutting-edge knowledge in data science. Readers will gain a comprehensive understanding of the journal's editorial standards, its contribution to the academic community, and the significance of its published works in the broader context of computer science and engineering. The following sections will guide you through the essential aspects of IEEE Transactions on Knowledge and Data Engineering, offering insights into its importance within the data engineering domain.

- Overview of IEEE Transactions on Knowledge and Data Engineering
- Scope and Research Areas Covered
- Publication and Peer-Review Process
- Impact and Academic Influence
- Key Topics and Trends in the Journal
- Guidelines for Authors and Submission Requirements

Overview of IEEE Transactions on Knowledge and Data Engineering

IEEE Transactions on Knowledge and Data Engineering (TKDE) is a flagship journal published by the IEEE Computer Society. Established to foster innovation and knowledge exchange, the journal addresses theoretical foundations as well as practical applications in knowledge and data engineering. TKDE is widely recognized for its rigorous peer-review standards and its commitment to publishing cutting-edge research that pushes the boundaries of data engineering and knowledge management. The journal typically features original research articles, surveys, and technical notes that contribute to the understanding and advancement of data-centric technologies.

Historical Background and Evolution

Since its inception, the IEEE Transactions on Knowledge and Data Engineering has evolved to keep pace with the rapid advancements in computing and data science. Originally focused on database systems and knowledge-based systems, the journal has expanded its scope to include emerging topics such as big data analytics, machine learning, and cloud computing. This evolution reflects the dynamic nature of the field and the journal's dedication to covering innovative research domains.

Publisher and Editorial Board

The journal is published by the IEEE Computer Society, a leading professional organization dedicated to advancing computer science and technology. The editorial board comprises renowned scholars and experts in knowledge and data engineering, ensuring the high quality and relevance of the published content. Their expertise guides the journal's editorial policies and maintains the publication's reputation for excellence.

Scope and Research Areas Covered

IEEE Transactions on Knowledge and Data Engineering covers a broad spectrum of topics related to the acquisition, modeling, management, and utilization of knowledge and data. The journal encourages submissions that contribute to the theoretical development, system design, and practical implementation of knowledge and data engineering technologies. Areas of interest include but are not limited to database systems, data mining, knowledge discovery, and information retrieval.

Core Research Domains

- Data Modeling and Database Systems
- Knowledge Representation and Reasoning
- Data Mining and Knowledge Discovery
- Machine Learning and Artificial Intelligence
- Big Data Analytics and Processing
- Information Retrieval and Text Mining
- Data Integration and Data Warehousing
- Semantic Web and Ontologies
- Cloud Computing and Distributed Data Systems

Emerging Topics and Interdisciplinary Research

The journal also welcomes innovative research that intersects with other areas such as cybersecurity, Internet of Things (IoT), and human-computer interaction. This interdisciplinary approach reflects the increasingly complex and interconnected nature of knowledge and data engineering challenges faced today.

Publication and Peer-Review Process

Maintaining high editorial standards is a hallmark of IEEE Transactions on Knowledge and Data Engineering. The publication process is designed to ensure that all articles meet rigorous scientific and technical criteria. The journal employs a double-blind peer-review process, which involves multiple expert reviewers evaluating the originality, technical soundness, and significance of each submission.

Submission Workflow

Authors submit manuscripts through an online submission system, where preliminary checks for format and scope are conducted. Following these checks, the manuscript undergoes peer review by at least two independent reviewers. The editorial board oversees the review process, providing decisions based on reviewer feedback and the journal's standards.

Review Criteria and Ethical Standards

The review criteria emphasize the novelty of the research, clarity of presentation, methodological rigor, and relevance to the field of knowledge and data engineering. The journal adheres to strict ethical standards, ensuring originality, proper citation, and transparency in research reporting.

Impact and Academic Influence

IEEE Transactions on Knowledge and Data Engineering holds a significant position in the academic and professional communities engaged in data science and knowledge engineering. The journal's impact factor and citation metrics reflect its influence and the high regard in which it is held worldwide. TKDE is frequently referenced in scholarly articles, conferences, and technology development projects, demonstrating its role as a leading source of authoritative information.

Contribution to the Research Community

The journal has contributed to landmark studies and breakthrough technologies in data processing and knowledge management. Researchers rely on TKDE for state-of-the-art methodologies and theoretical advancements, making it a central publication in the field. Its articles often serve as foundational references for subsequent research and development initiatives.

Academic and Industry Collaboration

In addition to academia, IEEE Transactions on Knowledge and Data Engineering is influential in industry sectors that depend on advanced data technologies. The journal's publication of practical applications and case studies fosters collaboration between researchers and practitioners, accelerating the translation of research findings into real-world solutions.

Key Topics and Trends in the Journal

The landscape of knowledge and data engineering is constantly evolving, and IEEE Transactions on Knowledge and Data Engineering reflects this dynamic environment by featuring research on current trends and future directions. The journal is a platform for exploring innovative algorithms, architectures, and frameworks that address contemporary data challenges.

Big Data and Scalable Data Systems

Research on handling massive datasets, distributed computing, and scalable data infrastructures is a prominent theme in TKDE. Articles frequently discuss novel approaches to data storage, processing, and analysis that accommodate the ever-growing volume and velocity of data.

Machine Learning and Artificial Intelligence Integration

The integration of machine learning techniques with knowledge and data engineering is a key area of focus. TKDE publishes work on supervised and unsupervised learning, deep learning architectures, and AI-driven data management systems that enhance decision-making and automation.

Data Quality, Privacy, and Security

Ensuring data integrity, privacy preservation, and security are critical challenges addressed by the journal. Research related to secure data sharing, anonymization, and trustworthy data pipelines underscores the importance of ethical and reliable data engineering practices.

Guidelines for Authors and Submission Requirements

To maintain the quality and consistency of its publications, IEEE Transactions on Knowledge and Data Engineering provides detailed guidelines for authors preparing manuscripts. Adherence to these guidelines facilitates a smooth review process and helps authors effectively communicate their research contributions.

Manuscript Preparation

Authors are advised to prepare manuscripts following the IEEE format requirements, which include specific instructions on layout, citation style, and figure presentation. Clarity, conciseness, and

thorough documentation of methods and results are emphasized to enhance readability and reproducibility.

Submission Criteria and Ethical Compliance

Submissions must present original work that has not been published elsewhere or under consideration by another journal. Authors must disclose any conflicts of interest and ensure compliance with ethical standards concerning human or animal research subjects, if applicable. Proper referencing and acknowledgment of prior work are mandatory.

Review and Revision Process

Authors should be prepared to respond to reviewer comments and make necessary revisions to improve the quality of their manuscript. The editorial team provides constructive feedback aimed at elevating the scientific rigor and clarity of the published research.

Frequently Asked Questions

What is the IEEE Transactions on Knowledge and Data Engineering (TKDE)?

IEEE Transactions on Knowledge and Data Engineering (TKDE) is a premier peer-reviewed journal published by the IEEE Computer Society focusing on the theory, design, and applications of knowledge and data engineering.

What topics does IEEE TKDE cover?

IEEE TKDE covers a wide range of topics including data mining, machine learning, knowledge discovery, databases, data management, information retrieval, and big data analytics.

How can I submit a paper to IEEE TKDE?

To submit a paper, authors need to follow the submission guidelines on the IEEE TKDE website, prepare their manuscript according to the template, and submit it through the IEEE TKDE online submission system.

What is the impact factor of IEEE Transactions on Knowledge and Data Engineering?

As of recent reports, the impact factor of IEEE TKDE is generally high in the field of data engineering and knowledge discovery, reflecting its reputation as a leading journal. For the latest impact factor, refer to the journal's official site or indexing services.

Who are the typical authors publishing in IEEE TKDE?

Typical authors include researchers, academics, and professionals working in data science, knowledge engineering, artificial intelligence, and related fields from universities, research institutions, and industry.

Is IEEE TKDE an open access journal?

IEEE TKDE is primarily a subscription-based journal, but it offers authors the option to publish open access articles upon payment of an article processing charge.

How long does the review process take for IEEE TKDE?

The review process duration varies but typically takes several months, including initial screening, peer review, revisions, and final decision.

Can I access IEEE TKDE articles for free?

Some articles may be available for free access, especially open access papers or those provided through institutional subscriptions. Otherwise, articles usually require a subscription or individual purchase.

What are some recent trending research areas featured in IEEE TKDE?

Recent trending areas include deep learning for knowledge discovery, big data analytics, explainable AI, graph data management, and data privacy and security.

How does IEEE TKDE ensure the quality of published papers?

IEEE TKDE ensures quality through a rigorous peer-review process involving multiple expert reviewers, editorial board oversight, and adherence to ethical publishing standards.

Additional Resources

1. *Data Mining: Concepts and Techniques*

This book provides a comprehensive introduction to the fundamental concepts and techniques of data mining. It covers data preprocessing, association analysis, classification, clustering, and anomaly detection. The text is designed for both students and professionals interested in extracting useful knowledge from large datasets.

2. *Knowledge Discovery in Databases: An Overview*

Focusing on the process of discovering useful knowledge from data, this book explores various methodologies and algorithms used in knowledge discovery. It discusses data cleaning, integration, selection, transformation, mining, and evaluation. The book serves as a guide for researchers and practitioners in data engineering and knowledge systems.

3. *Machine Learning for Data Streams: With Practical Examples in MOA*

This book addresses the challenges of learning from data streams, a critical topic in real-time data processing. It covers algorithms for classification, clustering, and regression in dynamic environments. Practical examples using the MOA framework help readers implement and experiment with streaming data techniques.

4. Big Data Analytics: Methods and Applications

Covering the principles and technologies behind big data analytics, this book discusses tools and techniques for managing, processing, and analyzing vast amounts of data. Topics include Hadoop, Spark, data warehousing, and predictive analytics. It is ideal for readers aiming to leverage big data in engineering and business contexts.

5. Semantic Web for the Working Ontologist

This text introduces the Semantic Web and ontology engineering, explaining how to represent knowledge in a machine-interpretable form. It covers RDF, OWL, SPARQL, and reasoning techniques, emphasizing practical applications in data engineering. The book is suitable for knowledge engineers and data scientists working on linked data.

6. Pattern Recognition and Machine Learning

A foundational book in the fields of pattern recognition and machine learning, it presents probabilistic models and inference algorithms. Topics include Bayesian networks, support vector machines, and neural networks. The text is mathematically rigorous and widely used in research related to knowledge extraction and data engineering.

7. Data Engineering: A Hands-On Approach to Big Data Processing

This book focuses on the practical aspects of designing and implementing data engineering solutions. It covers data pipelines, ETL processes, database systems, and cloud platforms. Readers learn to handle large-scale data infrastructure to support analytics and knowledge discovery.

8. Graph Data Management and Mining

Exploring graph-based data models and mining techniques, this book delves into social network analysis, graph querying, and pattern discovery. It highlights the importance of graphs in representing complex relationships in data. The book is valuable for those working on advanced data engineering problems involving networked data.

9. Advanced Topics in Knowledge and Data Engineering

This collection of essays and research papers discusses cutting-edge developments in knowledge representation, data mining, and machine learning. It includes case studies and experimental results in various application domains. The book is intended for advanced readers seeking to deepen their understanding of current trends in knowledge and data engineering.

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ieee transactions on knowledge and data engineering: Query Processing over Incomplete Databases Yunjun Gao, Xiaoye Miao, 2022-06-01 Incomplete data is part of life and almost all areas of scientific studies. Users tend to skip certain fields when they fill out online forms; participants choose to ignore sensitive questions on surveys; sensors fail, resulting in the loss of certain readings; publicly viewable satellite map services have missing data in many mobile applications; and in privacy-preserving applications, the data is incomplete deliberately in order to preserve the sensitivity of some attribute values. Query processing is a fundamental problem in computer science, and is useful in a variety of applications. In this book, we mostly focus on the query processing over incomplete databases, which involves finding a set of qualified objects from a specified incomplete dataset in order to support a wide spectrum of real-life applications. We first elaborate the three general kinds of methods of handling incomplete data, including (i) discarding the data with missing values, (ii) imputation for the missing values, and (iii) just depending on the observed data values. For the third method type, we introduce the semantics of k-nearest neighbor (kNN) search, skyline query, and top-k dominating query on incomplete data, respectively. In terms of the three representative queries over incomplete data, we investigate some advanced techniques to process incomplete data queries, including indexing, pruning as well as crowdsourcing techniques.

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but also group-level and community-level behaviors. Lastly, we will discuss the most important scientific problems and open issues involved in human behavior analysis.

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practitioners. Since its foundation in 1990, DEXA has been an annual international conference, located in Europe, which showcases state-of-the-art research activities in these areas. DEXA 2010 continued this tradition and provided a forum for presenting and discussing research results in the area of database and intelligent systems and advanced - search topics, applications and practically relevant issues related to these areas. It offered attendees the opportunity to extensively discuss requirements, problems, and solutions in the field in the pleasant atmosphere of the city of Bilbao, which is known for its driving industriousness, its top cultural venues and its rich and inspiring heritage and lifestyle. The University of Deusto with its great educational and research traditions, and the hospitality which the university and the city are so famous for, set the stage for this year's DEXA conference. This volume contains the papers selected for presentation at the DEXA conference.

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ieee transactions on knowledge and data engineering: Real-Time Database Systems Azer Bestavros, Kwei-Jay Lin, Sang Hyuk Son, 2012-12-06 Despite the growing interest in Real-Time Database Systems, there is no single book that acts as a reference to academics, professionals, and practitioners who wish to understand the issues involved in the design and development of RTDBS. Real-Time Database Systems: Issues and Applications fulfills this need. This book presents the spectrum of issues that may arise in various real-time database applications, the available solutions and technologies that may be used to address these issues, and the open problems that need to be tackled in the future. With rapid advances in this area, several concepts have been proposed without a widely accepted consensus on their definitions and implications. To address this need, the first chapter is an introduction to the key RTDBS concepts and definitions, which is followed by a survey of the state of the art in RTDBS research and practice. The remainder of the book consists of four sections: models and paradigms, applications and benchmarks, scheduling and concurrency control, and experimental systems. The chapters in each section are contributed by experts in the respective areas. Real-Time Database Systems: Issues and Applications is primarily intended for practicing engineers and researchers working in the growing area of real-time database systems. For practitioners, the book will provide a much needed bridge for technology transfer and continued education. For researchers, this book will provide a comprehensive reference for well-established results. This book can also be used in a senior or graduate level course on real-time systems, real-time database systems, and database systems or closely related courses.

ieee transactions on knowledge and data engineering: Intelligent Systems and Computer Technology D.J. Hemanth, V.D.A. Kumar, S. Malathi, 2020-12-15 Recent developments in soft-computation techniques have paved the way for handling huge volumes of data, thereby bringing about significant changes and technological advancements. This book presents the proceedings of the 3rd International Conference on Emerging Current Trends in Computing & Expert Technology (COMET 2020), held at Panimalar Engineering College, Chennai, India on 6 and 7 March 2020. The aim of the book is to disseminate cutting-edge developments taking place in the technological fields of intelligent systems and computer technology, thereby assisting researchers and practitioners from both institutions and industry to upgrade their knowledge of the latest developments and emerging areas of study. It focuses on technological innovations and trendsetting initiatives to improve business values, optimize business processes and enable inclusive growth for corporates, industries and education alike. The book is divided into two sections; 'Next Generation Soft Computing' is a platform for scientists, researchers, practitioners and academics to present and discuss their most recent innovations, trends and concerns, as well as the practical challenges encountered in the field. The second section, 'Evolutionary Networking and Communications' focuses on various aspects of 5G communications systems and networking, including cloud and virtualization solutions, management technologies, and vertical application areas. It brings together the latest technologies from all over the world, and also provides an excellent international forum for the sharing of knowledge and results from theory, methodology and applications in networking and communications. The book will be of interest to all those working in the fields of intelligent systems

and computer technology.

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