Comparative Study Of Online Tools In Preparation For

The remediation of environmental pollutants has become a relevant topic within the field of waste management. Advances in biological approaches are a potential tool for contamination and pollution control. The Handbook of Research on Microbial Tools for Environmental Waste Management is a critical scholarly resource that explores the advanced biological approaches that are used as remediation for pollution cleanup processes. Featuring coverage on a broad range of topics such as biodegradation, microbial dehalogenation, and pollution controlling treatments, this book is geared towards environmental scientists, biologists, policy makers, graduate students, and scholars seeking current research on environmental engineering and green technologies. As customer orientation continues to gain importance in the marketing field, there has been a growing concern for organizations to implement effective customer centric policies. Customer-Centric Marketing Strategies: Tools for Building Organizational Performance provides a more conceptual understanding on customer-centric marketing strategies as well as revealing the success factors of these concepts. This book will discuss how to improve the organization's financial and marketing performance. This book provides a broad treatment of current distance education trends and issues from an international vantage point. The book includes some twenty authored chapters that provide insight into specific implementations of distance education worldwide, as well as analyses of cross-national distance education themes. The book is designed to address the needs of a broad audience including practitioners, researchers, and graduate students, all of whom are impacted by the growing trend toward distance education in high school and university-levels.

Protein structural alignment is important for studying similarities between proteins. Various protein structural alignment tools have been developed for this task. These alignment tools have different characteristics and strategies on which they are based. In order to find out which structural alignment tool is the best for the application in hand and to develop better tools it is very important to classify the tools into groups based on these strategies and characteristics. In this research we have studied several protein structural alignment tools and categorized them based on several properties. This provides a basis and background work for the development of future structural alignment tools. Typically the developers of a given structural alignment program test the program on a few pairs of proteins and comment on its comparison with other previously developed tools. Although there are a large number of alignment tools available, the tools have never been subjected to a comprehensive and critical comparative analysis on the basis of a common data set or test bench. The absence of such a common data set is the major reason for the lack of this analysis. In this research, we propose a benchmark data set to test any protein structural alignment program. This data set is composed of 221 protein pairs and is divided into 11 categories. We have tested all the online available structural alignment tools on this data set and analyzed their performance. On the basis of the alignment results we have computed overall rankings of these alignment tools using three different rating methods.

As technology continues to play a pivotal role in society, education is a field that has become heavily influenced by these advancements. New learning methods are rapidly emerging and being implemented into classrooms across the world using software that is low cost and easy to handle. These tools are crucial in creating skillful learning techniques in classrooms, yet there is a lack of information and research on the subject. The Handbook of Research on Software for Gifted and Talented School Activities in K-12 Classrooms is an essential reference source that discusses newly developed but easy-to-handle and less costly software and tools and their implementation in real 21st-century classrooms worldwide. The book also helps and supports teachers to conduct gifted and talented school activities in K-12 classrooms. Featuring research on topics such as educational philosophy and skillful learning techniques, this book is ideally designed for software developers, educators, researchers, psychologists, instructional designers, curriculum developers, principals, academicians, and students seeking coverage on the emerging role that newly developed software plays in early education.

This book is a collection of the best research papers presented at the First World Conference on Internet of Things: Applications & Future (ITAF 2019), Sponsored by GR Foundation and French University in Egypt, held at Triumph Luxury Hotel, Cairo, Egypt, on 14–15 October 2019. It includes innovative works from leading researchers, innovators, business executives, and industry professionals that cover the latest advances in and applications for commercial and industrial end users across sectors within the emerging Internet of Things ecosphere. It addresses both current and emerging topics related to the Internet of Things such as big data research, new services and analytics, Internet of Things (IoT) fundamentals, electronic computation and analysis, big data for multi-discipline services, security, privacy and trust, IoT technologies, and open and cloud technologies.

Social network analysis has created novel opportunities within the field of data science. The complexity of these networks requires new techniques to optimize the extraction of useful information. Graph Theoretic Approaches for Analyzing Large-Scale Social Networks is a pivotal reference source for the latest academic research on emerging algorithms and methods for the analysis of social networks. Highlighting a range of pertinent topics such as influence maximization, probabilistic exploration, and distributed memory, this book is ideally designed for academics, graduate students, professionals, and practitioners actively involved in the field of data science.

The Handbook of Technology and Second Language Teaching and Learning presents a comprehensive exploration of the impact of technology on the field of second language learning. The rapidly evolving language-technology interface has propelled dramatic changes in, and increased opportunities for, second language teaching and learning. Its influence has been felt no less keenly in the approaches and methods of assessing learners' language and researching language teaching and learning. Contributions from a team of international scholars make up the Handbook consisting of four parts: language teaching and learning through technology; the technology-pedagogy interface; technology for L2 assessment; and research and development of technology for language learning. It considers how technology assists in all areas of language development, the emergence of pedagogy at the intersection of language and technology, technology in language assessment, and major research issues in research and development of technologies for language learning. It covers all aspects of language including grammar, vocabulary, reading, writing, listening, speaking, pragmatics, and intercultural learning, as well as new pedagogical and assessment approaches, and new ways of conceiving and conducting research and development. The Handbook of Technology and Second Language Teaching and Learning demonstrates the extensive, multifaceted implications of technology for language teachers, learners, materials-developers, and researchers.

"This book presents current developments in the multidisciplinary creation of Internet accessible remote laboratories, offering perspectives on teaching with online laboratories, pedagogical design, system architectures for remote laboratories, future trends,

and policy issues in the use of remote laboratories"--Provided by publisher.

Following the migration of workflows, data, and communication to the Cloud and other Internet-based frameworks, interaction over the Web has become ever more commonplace. As with any social situation, there are rules and consequences to actions within a virtual environment. Cyber Behavior: Concepts, Methodologies, Tools, and Applications explores the role of cyberspace in modern communication and interaction, including considerations of ethics, crime, security, and education. With chapters on a variety of topics and concerns inherent to a contemporary networked society, this multi-volume work will be of particular interest to students and academicians, as well as software developers, computer scientists, and specialists in the field of Information Technologies.

With the growth of information technology, many new communication channels and platforms have emerged. This growth has advanced the work of crowdsourcing, allowing individuals and companies in various industries to coordinate efforts on different levels and in different areas. Providing new and unique sources of knowledge outside organizations enables innovation and shapes competitive advantage. Crowdsourcing: Concepts, Methodologies, Tools, and Applications is a collection of innovative research on the methods and applications of crowdsourcing in business operations and management, science, healthcare, education, and politics. Highlighting a range of topics such as crowd computing, macrotasking, and observational crowdsourcing, this multi-volume book is ideally designed for business executives, professionals, policymakers, academicians, and researchers interested in all aspects of crowdsourcing.

Includes articles in topic areas such as autonomic computing, operating system architectures, and open source software technologies and applications.

This book constitutes the proceedings of the Third International Congress on Tools for Teaching Logic, TICTTL 2011, held in Salamanca, Spain, in June 2011. The 30 papers presented were carefully reviewed and selected from 62 submissions. The congress focusses on a variety of topics including: logic teaching software, teaching formal methods, logic in the humanities, dissemination of logic courseware and logic textbooks, methods for teaching logic at different levels of instruction, presentation of postgraduate programs in logic, e-learning, logic games, teaching argumentation theory and informal logic, and pedagogy of logic.

Advancements in technology have allowed for the creation of new tools and innovations that can improve different aspects of life. These applications can be utilized across different technological platforms. Application Development and Design: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on trends, techniques, and uses of various technology applications and examines the benefits and challenges of these computational developments. Highlighting a range of pertinent topics such as software design, mobile applications, and web applications, this multi-volume book is ideally designed for researchers, academics, engineers, professionals, students, and practitioners interested in emerging technology applications.

Developments in technologies have evolved in a much wider use of technology throughout science, government, and business; resulting in the expansion of geographic information systems. GIS is the academic study and practice of presenting geographical data through a system designed to capture, store, analyze, and manage geographic information. Geographic Information Systems: Concepts, Methodologies, Tools, and Applications is a collection of knowledge on the latest advancements and research of geographic information systems. This book aims to be useful for academics and practitioners involved in geographical data.

While online learning has become pervasive in many fields in higher education, it has been adopted somewhat slower in teacher education. In addition, more research is needed to empirically evaluate the effectiveness of online education in teacher preparation. Teacher Education Programs and Online Learning Tools: Innovations in Teacher Preparation presents information about current online practices and research in teacher education programs, and explores the opportunities, methods, and issues surrounding technologically innovative opportunities in teacher preparation. It presents empirical evidence of teacher candidate learning and assessment in the context of various online aspects of teacher licensure.

The human condition is affected by numerous factors in modern society. In modern times, technology is so integrated into culture that it has become necessary to perform even daily functions. Human Development and Interaction in the Age of Ubiquitous Technology is an authoritative reference source for the latest scholarly research on the widespread integration of technological innovations around the globe and examines how human-computer interaction affects various aspects of people's lives. Featuring emergent research from theoretical perspectives and case studies, this book is ideally designed for professionals, students, practitioners, and academicians.

"This book gives a general coverage of learning management systems followed by a comparative analysis of the particular LMS products, review of technologies supporting different aspect of educational process, and, the best practices and methodologies for LMS-supported course delivery"--Provided by publisher.

Skills are the key to shaping a better future and central to the capacity of countries and people to thrive in an increasingly interconnected and rapidly changing world. Megatrends such as globalisation, technological advances and demographic change are reshaping work and society, generating a growing demand for higher levels of skills and new sets of skills.

The Third International Conference on Network Security and Applications (CNSA-2010) focused on all technical and practical aspects of security and its applications for wired and wireless networks. The goal of this conference is to bring together researchers and practitioners from academia and industry to focus on understanding modern security threats and countermeasures, and establishing new collaborations in these areas. Authors are invited to contribute to the conference by submitting articles that illustrate research results, projects, survey work and industrial experiences describing significant advances in the areas of security and its applications, including: • Network and Wireless Network Security • Mobile, Ad Hoc and Sensor Network Security • Peer-to-Peer Network Security • Database and System Security • Intrusion Detection and Prevention • Internet Security, and Applications Security and Network Management • E-mail Security, Spam, Phishing, E-mail Fraud • Virus, Worms, Trojon Protection • Security Threats and Countermeasures (DDoS, MiM, Session Hijacking, Replay attack etc.) • Ubiquitous Computing Security • Web 2. 0 Security • Cryptographic Protocols • Performance Evaluations of Protocols and Security Application There were 182 submissions to the conference and the Program Committee selected 63 papers for publication. The book is organized as a collection of papers from the First International Workshop on Trust Management in P2P Systems (IWTMP2PS 2010), the First International Workshop on Database Management Systems (DMS- 2010), and the First International Workshop

on Mobile, Wireless and Networks Security (MWNS-2010).

As the digital world assumes an ever-increasing role in the daily lives of the public, opportunities to engage in crimes increase as well. The prevention of cyber aggression is an ongoing challenge due to its multifaceted nature and the difficulties in realizing effective interventions. The consequences of cyber aggression can range from emotional and psychological distress to death by suicide or homicide. Enduring prevention programs need to be defined and take into consideration that the digital revolution changes the way and the meaning of interpersonal relationships. Developing Safer Online Environments for Children: Tools and Policies for Combatting Cyber Aggression explores the effects of cyberbullying and cyberstalking on children and examines solutions that can identify and prevent online harassment through both policy and legislation reform and technological tools. Highlighting a range of topics such as cyberbullying, fake profile identification, and victimization, this publication is an ideal reference source for policymakers, educators, principals, school counsellors, therapists, government officials, politicians, lawmakers, academicians, administrators, and researchers.

"This set addresses a range of e-collaboration topics through advanced research chapters authored by an international partnership of field experts"--Provided by publisher.

Discover Hard-to-Find Foreclosures at Rock Bottom Prices! Foreclosures are the ultimate bargain, and there's never been a better time for you to cash in on the booming foreclosure market. Imagine the thrill of buying a house, vacation home or investment property for as little as half price—some are discounted even more! Until now, foreclosures were difficult to find and even harder to buy. Most of the great deals were hidden, purchased early in the pre-foreclosure stage by in-the-know professional investors before they ever made it to a public foreclosure list. Not any more. Real estate experts Danielle Babb and Bill Nazur have leveled the playing field by making this once-privileged information available to you. Armed with their significant knowledge of the foreclosure market and notable expertise in using revolutionary internet tools recently made available to the general public, you'll have everything you need to find and buy your dream property. You'll learn how to: Spot foreclosures before other investors Find amazing deals in the pre-foreclosure stage Identify great properties using powerful but easy-to-use internet tools Negotiate with sellers and win auctions with exclusive strategies Estimate market value and secure funding The insider information these foreclosure specialists divulge on how to find, value, negotiate and win is your key to the inner circle and will put you on the inside track to saving big money.

"This book contributes to this search for better teaching methods by exploring the technical, social, cultural, organizational, human, cognitive, and commercial impact of technology in education"--Provided by publisher.

The integration of AI with software is an essential enabler for science and the new economy, creating new markets and opportunities for a more reliable, flexible and robust society. Current software methodologies, tools and techniques often fall short of expectations, however, and much software remains insufficiently robust and reliable for a constantly changing and evolving market. This book presents 54 papers delivered at the 20th edition of the International Conference on New Trends in Intelligent Software Methodology Tools, and Techniques (SoMeT_21), held in Cancun, Mexico, from 21–23 September 2021. The aim of the conference was to capture the essence of a new state-of-the-art in software science and its supporting technology and to identify the challenges that such a technology will need to master, and this book explores the new trends and theories illuminating the direction of development in this field as it heads towards a transformation in the role of software and science integration in tomorrow's global information society. The 54 revised papers were selected for publication by means of a rigorous review process involving 3 or 4 reviewers for each paper, followed by selection by the SoMeT_21 international reviewing committee. The book is divided into 9 chapters, classified by paper topic and relevance to the chapter theme. Covering topics ranging from research practices, techniques and methodologies to proposing and reporting on the solutions required by global business, the book offers an opportunity for the software science community to consider where they are today and where they are headed in the future.

With the technological advancement of mobile devices, social networking, and electronic services, Web technologies continues to play an ever-growing part of the global way of life, incorporated into cultural, economical, and organizational levels. Web Technologies: Concepts, Methodologies, Tools, and Applications (4 Volume) provides a comprehensive depiction of current and future trends in support of the evolution of Web information systems, Web applications, and the Internet. Through coverage of the latest models, concepts, and architectures, this multiple-volume reference supplies audiences with an authoritative source of information and direction for the further development of the Internet and Web-based phenomena.

Across the member states of the Council of Europe, both the blocking and removal of online material are frequently treated in a similar way. However, the existence or the lack of a legislative framework specifically targeted to the internet, and the specificities of national regulatory "models" translate in different practices and can be a challenge for the states concerned. The Council of Europe commissioned a comparative study from the Swiss Institute of Comparative Law in respect of filtering, blocking and take-down of illegal content on the internet in the 47 member states of the Organisation. This study describes and assesses the legal framework but also the relevant case-law and practice in the field. It comprises a comparative analysis – which is the subject of this publication – and country reports (available on the website: www.coe.int/freedomofexpression).

This book covers deep-learning-based approaches for sentiment analysis, a relatively new, but fast-growing research area, which has significantly changed in the past few years. The book presents a collection of state-of-the-art approaches, focusing on the best-performing, cutting-edge solutions for the most common and difficult challenges faced in sentiment analysis research. Providing detailed explanations of the methodologies, the book is a valuable resource for researchers as well as newcomers to the field.

In the era of digital technology, business transactions and partnerships across borders have become easier than ever. As part of this shift in the corporate sphere, managers, executives, and strategists across industries must acclimate themselves with the challenges and opportunities for conducting business. Mobile Commerce: Concepts, Methodologies, Tools, and Applications provides a comprehensive source of advanced academic examinations on the latest innovations and technologies for businesses. Including innovative studies on marketing, mobile commerce security, and wireless handheld devices, this multi-volume book is an ideal source for researchers, scholars, business executives, professionals, and graduate-level students.

This contributed volume explores the emerging intersection between big data analytics and genomics. Recent sequencing technologies have enabled high-throughput sequencing data generation for genomics resulting in several international projects which have led to massive genomic data accumulation at an unprecedented pace. To reveal novel genomic insights from this data within a reasonable time frame, traditional data analysis methods may not be sufficient or scalable, forcing the need for big data analytics to be developed for genomics. The

computational methods addressed in the book are intended to tackle crucial biological questions using big data, and are appropriate for either newcomers or veterans in the field.This volume offers thirteen peer-reviewed contributions, written by international leading experts from different regions, representing Argentina, Brazil, China, France, Germany, Hong Kong, India, Japan, Spain, and the USA. In particular, the book surveys three main areas: statistical analytics, computational analytics, and cancer genome analytics. Sample topics covered include: statistical methods for integrative analysis of genomic data, computation methods for protein function prediction, and perspectives on machine learning techniques in big data mining of cancer. Self-contained and suitable for graduate students, this book is also designed for bioinformaticians, computational biologists, and researchers in communities ranging from genomics, big data, molecular genetics, data mining, biostatistics, biomedical science, cancer research, medical research, and biology to machine learning and computer science. Readers will find this volume to be an essential read for appreciating the role of big data in genomics, making this an invaluable resource for stimulating further research on the topic.

The new generation of internet technologies and web applications is seeing a growth in social software and networking, as well as other communications tools. This infrastructure of social interaction and collaboration has provided an increase in more dynamic user participation and expertise in knowledge of contents and facts traditionally only held by experts. Social Software and the Evolution of User Expertise: Future Trends in Knowledge Creation and Dissemination examines the vital role that social software applications play in regards to the cultural definitions of experts and challenges the reader to consider how recent changes in this area influence how we create and distribute knowledge. This collection brings together scholars and practitioners from various disciplines and professions to project a new kind of thinking about the understanding of the major changes in many professions.

This book presents scientific interactions between the three interwoven and challenging areas of research and development of future ICT-enabled applications: software, complex systems and intelligent systems. Software intensive systems heavily interact with other systems, sensors, actuators, and devices, as well as other software systems and users. More and more domains involve software intensive systems, e.g. automotive, telecommunication systems, embedded systems in general, industrial automation systems and business applications. Moreover, web services offer a new platform for enabling software intensive systems. Complex systems research focuses on understanding overall systems rather than their components. Such systems are characterized by the changing environments in which they act, and they evolve and adapt through internal and external dynamic interactions. The development of intelligent systems and agents features the use of ontologies, and their logical foundations provide a fruitful impulse for both software intensive systems and complex systems. Research in the field of intelligent systems, robotics, neuroscience, artificial intelligence, and cognitive sciences is a vital factor in the future development and innovation of software intensive and complex systems.

Diversity among university students plays a significant role in raising awareness of numerous issues surrounding cultural heritage, language differences, cross-cultural collaboration, and international education. The integration of technological tools can assist students in cooperating nationally and internationally both in their current educational and future professional settings. Multicultural Awareness and Technology in Higher Education: Global Perspectives encompasses the latest research on the impact and integration of technology into international education and culturally diverse learning environments. Providing the latest teaching and learning methods, technologies, and approaches at the university level, this publication is a useful reference for academics, educational administrators in public and private institutions, and information society researchers.

Wikis are Web-based online software programs that allow any user to add, edit, or delete content on a Wiki web page. Because of their relative simplicity and their interactive nature, Wikis are potentially effective tools for online collaborative group work, a type of activity frequently used in online distance education. This study examined online Wiki collaboration compared to more conventional face-to-face group collaboration in higher education. The study participants were juniors and seniors taking a senior-level broadcast communications course. They were divided into two groups, and each group collaborated on writing reports using both conventional face-to-face collaboration methods and collaboration using the Wiki function in Moodle course management software. Following completion of the reports, professional subject matter experts rated the quality of the reports according to specified content and format criteria. The study's research questions addressed (1) benefits and obstacles experienced in face-to-face collaboration; (2) benefits and obstacles experienced in Wiki-based group collaboration; (3) whether there was a difference between Wiki group collaboration and face-to-face group collaboration in terms of the quality of the final product; and (4) whether there was a difference in students' experiences of learning and sense of community after Wiki-based collaboration and face-to-face collaboration assignments. Results indicated there was no difference in the quality of reports related to the method of collaboration, suggesting that Wikis are an effective collaboration method; face-to-face collaboration is more efficient in terms of communication among group members and is sometimes preferred because it is familiar. Wiki collaboration allowed students to work at their own pace and to easily see the work of other group members. Students adapted Wiki capabilities to their previous methods of group work, and there was not a significant difference in students' experiences of learning and community between the two methods. Even though the Wiki software provided the capability, participants did not edit one another's Wiki work unless they had volunteered and were designated by the group to be an editor. Unless they were an editor, individual participants did not feel it was appropriate to change their peers' work.

This book investigates e-learning practices at American and Australian institutes of higher learning, their status quo, best-practice examples, and remaining issues. Utilizing a mixed-methods approach, it combines three studies – two using quantitative methods and a third using qualitative methods – in order to gauge the status quo of e-learning. The first study addresses the dominant cultural dimensions, revealing that the main explanation for the results may be the fact that most suppliers of the Australian university's e-learning system had an East Asian cultural background and predominantly traditional perspectives on learning. In Study 2, the findings indicate that the levels of e-learning practice at the Australian and US universities surveyed were above average, although the American university was ranked higher in terms of e-learning practices. In turn, Study 3 investigates current problems in e-learning practice on the basis of four aspects – pedagogy, culture, technology and e-practice – and determines that cultural sensitivity and effective cultural practices show room for improvement, while key technological challenges and issues like faculty polices, quality, LMS, and online support need to be overcome. In general, the outcomes suggest that it is essential for the Australian university surveyed to further develop and update its e-learning system, especially in terms of e-practice, using the same technologies that pioneering countries like America are employing. Indeed, the combination of adopting patterns successfully used in other countries, and adjusting them to the Australian culture, represents the best strategy for educational decision and policy makers. This book provides the basis for designing a culture-sensitive framework for higher education e-learning practice in American and Australian contexts. Moreover, students' and teachers' experiences with e-learning in a comparative higher education context can help higher education instructors and university managers to understand how e-learning relates to, and can be integrated with, other experiences of learning and teaching.

Many can now conclude that utilizing educational technologies can be considered the primary tools to inspire students to learn. Combining these technologies with the best teaching and learning practices can engage in creativity and imagination in the engineering field. Using Technology Tools to Innovate Assessment, Reporting, and Teaching Practices in Engineering Education highlights the lack of understanding of teaching and learning with technology in higher education engineering programs while emphasizing the important use of this technology. This book aims to be essential for professors, graduate, and undergraduate students in the engineering programs interested learning the appropriate use of technological tools.

Health Sciences & Professions

In the past two decades, the Internet has come to dominate every aspect of everyday life. This has been a huge change for many of us, and, for the younger generation - born into this situation - there has been no other way of living. How does this new way of life affect our health and happiness, our well-being? How does it affect our relationships, our friendships? Has the definition of friendship changed now that we have hundreds of friends on Facebook? Why is it that some people find it so hard to talk to people in their daily lives but find it so easy on the Internet? People spend so much time on the Internet - so what do we actually do on there? Why are some people so aggressive and others exceptionally helpful? Are these behaviors that we see from the same people offline? How do we take decisions online and which groups would we rather belong to online where nobody knows us, rather than revealing our true identity to the outside world? The new edition of 'The Social Net' provides a comprehensive understanding of the social aspects of the Internet. It contains chapters on topics such as identity manipulation, online romantic relationships, online decision making, the internet and aggression, and online prejudice and discrimination. The book provides the reader with an understanding of both the negative and positive influences of the net and is an exceptionally useful guide for for how to use the net to improve wellbeing. Today, when there is so much negative publicity surrounding the Internet - despite our reliance on it - this book provides a much needed balanced understanding of the Net and its influence.

Big Data Analytics in GenomicsSpringer

This book is a comprehensive guide for literacy teacher educators and professional development trainers who teach and work in online settings. The authors provide tools, techniques, and resources for developing courses, workshops, and other online learning experiences, including blended/hybrid delivery formats that combine face-to-face meetings with online practices. Moving away from traditonal discussions in which technology and delivery systems dominate the conversation, this book focuses on the literacy instructor with techniques for building effective learning communities. The authors outline the unique pedagogical challenges posed by online courses and offer guidance for making decisions about what tools to use for specific instructional purposes. More that simply a "how-to" book, this resource will encourage novice and experienced instructors to extend their thinking and enable online literacy teacher education to grow in positive ways. Book features include: support for those teaching in many different roles, including program coordinators, professors, and adjuncts; a focus on pedagogical innovation as the key to sucess, with concrete examples of instructional and assessment practices; connections to the IRA Standards for Reading Professionals and other national standards for teacher education; and a companion website where online literacy teacher educators can communicate and share resources.

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