

Belkin N1 Vision Manual

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Artificial Intelligence Applications and Innovations

In this monograph, the emerging paradigm of employing Laplacian solvers to design new fast algorithms for graph problems is illustrated through a small but carefully chosen set of examples. A significant part of this monograph is also dedicated to developing the ideas that go into the construction of near-linear time Laplacian solvers.

Attention and Orienting

Topics covered include fast implementations of known algorithms, approximations that are amenable to theoretical guarantees, and algorithms that perform well in practice but are difficult to analyze theoretically.

Hierarchy in International Relations

This book constitutes the thoroughly refereed proceedings of the 15th International Conference on Advanced Concepts for Intelligent Vision Systems, ACIVS 2013, held in Poznań, Poland, in October 2013. The 63 revised full papers were carefully selected from 111 submissions. The topics covered are acquisition, pre-processing and coding, biometry, classification and

recognition, depth, 3D and tracking, efficient implementation and frameworks, low level image analysis, segmentation and video analysis.

Advanced Concepts for Intelligent Vision Systems

On behalf of the PROFES Organizing Committee we are proud to present to you the proceedings of the 6th International Conference on Product Focused Software Process Improvement (PROFES 2005), held in Oulu, Finland. Since 1999, PROFES has established itself as one of the recognized international software process improvement conferences. The purpose of the conference is to bring to light the most recent findings and results in the area and to stimulate discussion between researchers, experienced professionals, and technology providers. The large number of participants coming from industry confirms that the conference provides a variety of up-to-date topics and tackles industry problems. The main theme of PROFES is professional software process improvement (SPI) motivated by product and service quality needs. SPI is facilitated by software process assessment, software measurement, process modeling, and technology transfer. It has become a practical tool for quality software engineering and management. The conference addresses both the solutions found in practice and the relevant research results from academia. This is reflected in the 42 full papers, which are – as in the years before – a well-balanced mix of academic papers as well as industrial experience reports. The business of developing new applications like mobile and Internet services or enhancing the functionality of a variety of products using embedded software is rapidly growing, maturing and meeting the harsh business realities. The accepted papers focusing on wireless and the Internet are grouped into a special “mobile and wireless” session. We wish to thank VTTElectronics, the University of Oulu including Infotech, and Fraunhofer IESE for supporting the conference. We are also grateful to the authors for high-quality papers, the Program Committee for their hard work in reviewing the papers, the Organizing Committee for making the event possible, and all the numerous supporters who helped in organizing this conference.

Mac 911

This six-session LifeGuide® Bible Study will introduce you to the circumstances surrounding the birth of Jesus, remind you of God's faithfulness and power to fulfill his promises, and draw you more deeply into the love that brought Christ to earth.

Information Retrieval for E-Discovery

This second edition focuses on audio, image and video data, the three main types of input that machines deal with when

interacting with the real world. A set of appendices provides the reader with self-contained introductions to the mathematical background necessary to read the book. Divided into three main parts, From Perception to Computation introduces methodologies aimed at representing the data in forms suitable for computer processing, especially when it comes to audio and images. Whilst the second part, Machine Learning includes an extensive overview of statistical techniques aimed at addressing three main problems, namely classification (automatically assigning a data sample to one of the classes belonging to a predefined set), clustering (automatically grouping data samples according to the similarity of their properties) and sequence analysis (automatically mapping a sequence of observations into a sequence of human-understandable symbols). The third part Applications shows how the abstract problems defined in the second part underlie technologies capable to perform complex tasks such as the recognition of hand gestures or the transcription of handwritten data. Machine Learning for Audio, Image and Video Analysis is suitable for students to acquire a solid background in machine learning as well as for practitioners to deepen their knowledge of the state-of-the-art. All application chapters are based on publicly available data and free software packages, thus allowing readers to replicate the experiments.

Information and Communication Technology

Instead of building new hospitals that import old systems and problems, the time has come to reexamine many of our ideas about what a hospital should be. Can a building foster continuous improvement? How can we design it to be flexible and useful well into the future? How can we do more with less? Winner of a 2013 Shingo Prize for Operational Excellence! Answering these questions and more, Lean-Led Hospital Design: Creating the Efficient Hospital of the Future explains how hospitals can be built to increase patient safety and reduce wait times while eliminating waste, lowering costs, and easing some of healthcare's most persistent problems. It supplies a simplified timeline of architectural planning—from start to finish—to guide readers through the various stages of the Lean design development philosophy, including Lean architectural design and Lean work design. It includes examples from several real healthcare facility design and construction projects, as well as interviews with hospital leaders and architects. Check out a video of the authors discussing their book, Lean-Led Hospital Design at the 2012 Med Assets Healthcare Business Summit.
www.modernhealthcare.com/section/LiveatHBS

Genomes

Cooperative Information Agents III

Hydrogels are a fascinating class of polymers which show an immense ability of swelling under the influence of

temperature, pH value or concentrations of different species in aqueous solutions. The volume change can amount up to several hundred percent. This unique behaviour is already used in such applications like disposable diapers, contact lenses or drug-delivery systems. The ability to perform mechanical work has been shifted the technical interest more and more towards sensors and actuators exploiting the thermo-chemo-mechano-electrical coupling within hydrogels. The accuracy requirements for such devices are much more demanding than for previous applications. Therefore, a deep knowledge of both the material and the functional properties of hydrogel sensors and actuators is needed. The monograph describes state of the art and recent developments for these materials in sensor and actuator technology.

A Hands-On Introduction to Data Science

This book constitutes the refereed proceedings of the 8th International Workshop on Self-Organizing Maps, WSOM 2011, held in Espoo, Finland, in June 2011. The 36 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on plenaries; financial and societal applications; theory and methodology; applications of data mining and analysis; language processing and document analysis; and visualization and image processing.

Lean-Led Hospital Design

This book constitutes the refereed proceedings of the Third International Workshop on Cooperative Information Systems, CIA'99, held in Uppsala, Sweden in July/August 1999. The 16 revised full papers presented were carefully reviewed and selected from a total of 46 submissions. Also included are ten invited contributions by leading experts. The volume is divided in sections on information discovery and management on the Internet; information agents on the Internet-prototypes systems and applications; communication and collaboration, mobile information agents; rational information agents for electronic business; service mediation and negotiation; and adaptive personal assistance.

Architectural Transformations in Network Services and Distributed Systems

Since its debut, Policy Paradox has been widely acclaimed as the most accessible policy text available.

Smart Technologies and Innovations in Design for Control of Technological Processes and Objects: Economy and Production

Compressed sensing is an exciting, rapidly growing field, attracting considerable attention in electrical engineering, applied

mathematics, statistics and computer science. This book provides the first detailed introduction to the subject, highlighting recent theoretical advances and a range of applications, as well as outlining numerous remaining research challenges. After a thorough review of the basic theory, many cutting-edge techniques are presented, including advanced signal modeling, sub-Nyquist sampling of analog signals, non-asymptotic analysis of random matrices, adaptive sensing, greedy algorithms and use of graphical models. All chapters are written by leading researchers in the field, and consistent style and notation are utilized throughout. Key background information and clear definitions make this an ideal resource for researchers, graduate students and practitioners wanting to join this exciting research area. It can also serve as a supplementary textbook for courses on computer vision, coding theory, signal processing, image processing and algorithms for efficient data processing.

Policy Paradox

Patent Retrieval addresses the question of how research and technology in the field of Information Retrieval assists, or even changes the processes of patent search. It is a survey of work done on patent data in relation to Information Retrieval in the last 20-25 years.

Explaining the Success of Nearest Neighbor Methods in Prediction

Big data and human-computer information retrieval (HCIR) are changing IR. They capture the dynamic changes in the data and dynamic interactions of users with IR systems. A dynamic system is one which changes or adapts over time or a sequence of events. Many modern IR systems and data exhibit these characteristics which are largely ignored by conventional techniques. What is missing is an ability for the model to change over time and be responsive to stimulus. Documents, relevance, users and tasks all exhibit dynamic behavior that is captured in data sets typically collected over long time spans and models need to respond to these changes. Additionally, the size of modern datasets enforces limits on the amount of learning a system can achieve. Further to this, advances in IR interface, personalization and ad display demand models that can react to users in real time and in an intelligent, contextual way. In this book we provide a comprehensive and up-to-date introduction to Dynamic Information Retrieval Modeling, the statistical modeling of IR systems that can adapt to change. We define dynamics, what it means within the context of IR and highlight examples of problems where dynamics play an important role. We cover techniques ranging from classic relevance feedback to the latest applications of partially observable Markov decision processes (POMDPs) and a handful of useful algorithms and tools for solving IR problems incorporating dynamics. The theoretical component is based around the Markov Decision Process (MDP), a mathematical framework taken from the field of Artificial Intelligence (AI) that enables us to construct models that change according to sequential inputs. We define the framework and the algorithms commonly used to optimize over it and

generalize it to the case where the inputs aren't reliable. We explore the topic of reinforcement learning more broadly and introduce another tool known as a Multi-Armed Bandit which is useful for cases where exploring model parameters is beneficial. Following this we introduce theories and algorithms which can be used to incorporate dynamics into an IR model before presenting an array of state-of-the-art research that already does, such as in the areas of session search and online advertising. Change is at the heart of modern Information Retrieval systems and this book will help equip the reader with the tools and knowledge needed to understand Dynamic Information Retrieval Modeling.

Science Citation Index

With the given work we decided to help not only the readers but ourselves, as the professionals who actively involved in the networking branch, with understanding the trends that have developed in recent two decades in distributed systems and networks. Important architecture transformations of distributed systems have been examined. The examples of new architectural solutions are discussed.

Large-scale Kernel Machines

An introductory textbook offering a low barrier entry to data science; the hands-on approach will appeal to students from a range of disciplines.

Mathematics for Machine Learning

Vols. for 1964- have guides and journal lists.

Compressed Sensing

This book constitutes the refereed proceedings of the First International Workshop on Multimodal Brain Image Analysis, held in conjunction with MICCAI 2011, in Toronto, Canada, in September 2011. The 15 revised full papers presented together with 4 poster papers were carefully reviewed and selected from 24 submissions. The objective of this workshop is to facilitate advancements in the multimodal brain image analysis field, in terms of analysis methodologies, algorithms, software systems, validation approaches, benchmark datasets, neuroscience, and clinical applications.

Advent of the Savior

Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

Dynamic Information Retrieval Modeling

Machine Learning for Audio, Image and Video Analysis

Explains the success of Nearest Neighbor Methods in Prediction, both in theory and in practice.

Hydrogel Sensors and Actuators

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Constrained Clustering

Data Mining Applications with R is a great resource for researchers and professionals to understand the wide use of R, a

free software environment for statistical computing and graphics, in solving different problems in industry. R is widely used in leveraging data mining techniques across many different industries, including government, finance, insurance, medicine, scientific research and more. This book presents 15 different real-world case studies illustrating various techniques in rapidly growing areas. It is an ideal companion for data mining researchers in academia and industry looking for ways to turn this versatile software into a powerful analytic tool. R code, Data and color figures for the book are provided at the RDataMining.com website. Helps data miners to learn to use R in their specific area of work and see how R can apply in different industries Presents various case studies in real-world applications, which will help readers to apply the techniques in their work Provides code examples and sample data for readers to easily learn the techniques by running the code by themselves

Introduction to Information Retrieval

This book presents the proceedings of International Conference on Knowledge Society: Technology, Sustainability and Educational Innovation (TSIE 2019). The conference, which was held at UTN in Ibarra, Ecuador, on 3–5 July 2019, allowed participants and speakers to share their research and findings on emerging and innovative global issues. The conference was organized in collaboration with a number of research groups: Group for the Scientific Research Network (e-CIER); Research Group in Educational Innovation and Technology, University of Salamanca, Spain(GITE-USAL); International Research Group for Heritage and Sustainability (GIIPS), and the Social Science Research Group (GICS). In addition, it had the endorsement of the RedCLARA, e-science, Fidal Foundation, Red CEDIA, IEEE, Microsoft, Business IT, Adobe, and Argo Systems. The term “knowledge society” can be understood as the management, understanding and co-creation of knowledge oriented toward the sustainable development and positive transformation of society. In this context and on the occasion of the XXXIII anniversary of the Universidad Técnica del Norte (UTN), the Postgraduate Institute through its Master of Technology and Educational Innovation held the I International Congress on Knowledge Society: Technology, Sustainability and Educational Innovation – TSIE 2019, which brought together educators, researchers, academics, students, managers, and professionals, from both the public and private sectors to share knowledge and technological developments. The book covers the following topics: 1. curriculum, technology and educational innovation; 2. media and education; 3. applied computing; 4. educational robotics. 5. technology, culture, heritage, and tourism development perspectives; and 6. biodiversity and sustainability.

LX = B

20 years ago, from July 8 to 20, 1990, 60 researchers gathered for two weeks at Castillo-Palacio Magalia in Las Navas del Marques (Avila Province, Spain) to discuss cognitive and linguistic aspects of geographic space. This meeting was the start

of successful research on cognitive issues in geographic information science, produced an edited book (D. M. Mark and A. U. Frank, Eds., 1991, *Cognitive and Linguistic Aspects of Geographic Space*. NATO ASI Series D: Behavioural and Social Sciences 63. Kluwer, Dordrecht/Boston/London), and led to a biannual conference (COSIT), a refereed journal (*Spatial Cognition and Computation*), and a substantial and still growing research community. It appeared worthwhile to assess the achievements and to reconsider the research challenges twenty years later. What has changed in the age of computational ontologies and cyber-infrastructures? Consider that 1990 the web was only about to emerge and the very first laptops had just appeared! The 2010 meeting brought together many of the original participants, but was also open to others, and invited contributions from all who are researching these topics. Early-career scientists, engineers, and humanists working at the intersection of cognitive science and geographic information science were invited to help with the re-assessment of research needs and approaches. The meeting was very successful and compared the research agenda laid out in the 1990 book with achievements over the past twenty years and then turned to the future: What are the challenges today? What are worthwhile goals for basic research? What can be achieved in the next 20 years? What are the lessons learned? This edited book will assess the current state of the field through chapters by participants in the 1990 and 2010 meetings and will also document an interdisciplinary research agenda for the future.

Mobile and Ubiquitous Information Access

This book presents the Proceedings of The International Science and Technology Conference “FarEastCon-2018,” which took place on October 2-4, 2018 in Vladivostok, Russian Federation. The conference provided a platform for accumulating expert opinion on projects and initiatives aimed at the implementation of far-sighted scientific research and development, and allowed current scientific and practical achievements to be shared with wide circle of researchers. Featuring selected papers from the conference, the book is of interest to a broad range of experts involved in developing innovative solutions and organizing events that increase the efficiency of economic and innovative activities.

Mosaics Make a Site

Presented at a symposium held in 1990 to celebrate the Getty Museum's acquisition of the only known illuminated copy of *The Visions of Tondal*, twenty essays address the celebrated bibliophilic activity of Margaret of York; the career of Simon Marmion, a favorite artist of the Burgundian court; and *The Visions of Tondal* in relation to illustrated visions of the Middle Ages. Contributors include Maryan Ainsworth, Wim Blockmans, Walter Cahn, Albert Derolez, Peter Dinzelbacher, Rainald Grosshans, Sandra Hindman, Martin Lowry, Nigel Morgan, and Nigel Palmer.

LabVIEW for Everyone

The best cases, the best questions, the best review for the General Surgery boards and ABSITE General Surgery Examination and Board Review is the perfect way to prepare for General Surgery certification exams. Covering the full range of exam topics, this high-yield review features an effective case-based approach that sharpens clinical decision-making skills and gives the content real-world relevancy. Each of the more than 100 chapters opens with a clinical case and is followed by Q&A related to that particular case. You also get detailed evidenced-based answer explanations and references to facilitate more in-depth study. Features:

- Topics mirror the exam blueprint to ensure you are studying the most relevant material possible
- Enables you to incorporate the proven benefits of case-based review into general surgery board review
- An essential resource for general surgery residents as well as practicing surgeons preparing for recertification – and invaluable for ABSITE review
- More than 700 questions – all with detailed answer explanations
- Includes chapters on timely topics such as ethical/legal issue, robotic-assisted surgery, end of life care, and surgical nutrition
- Coverage reflects the very latest clinical advances so you can incorporate this information into your exam preparation or daily practice

Product Focused Software Process Improvement

This book constitutes the thoroughly refereed post-proceedings of the International Workshop on Mobile and Ubiquitous Information Access held in Udine, Italy in September 2003 during Mobile HCI 2003. Besides selected and revised workshop papers, several papers were specially invited to complete coverage of all relevant issues and extend the volume to a more representative survey of the state of the art in the area. The 21 articles in the book are organized in topical sections on - foundations: concepts, models, and paradigms; - interactions; - applications and experimental evaluations; - context and location.

Recent Advances in Technology Research and Education

Do you ever feel powerless? Acts is the extraordinary record of what the early Christian disciples did. The power that you see in action in this book is the same power that can transform your life. As Phyllis J. Le Peau leads you through the pages of Acts, you will begin to understand what the Holy Spirit can do in you and in the world.

Multimodal Brain Image Analysis

This book constitutes the refereed proceedings of the Second IFIP TC 5/8 International Conference on Information and Communication Technology, ICT-Eur Asia 2014, with the collocation of Asia ARES 2014 as a special track on Availability, Reliability and Security, held in Bali, Indonesia, in April 2014. The 70 revised full papers presented were carefully reviewed

and selected from numerous submissions. The papers have been organized in the following topical sections: applied modeling and simulation; mobile computing; advanced urban-scale ICT applications; semantic web and knowledge management; cloud computing; image processing; software engineering; collaboration technologies and systems; e-learning; data warehousing and data mining; e-government and e-health; biometric and bioinformatics systems; network security; dependable systems and applications; privacy and trust management; cryptography; multimedia security and dependable systems and applications.

Technology, Sustainability and Educational Innovation (TSIE)

This volume brings together the disciplines of plant and animal genome research, and serves as an opportunity for scientists from both fields to compare results, problems and prospects.

Natural Language Processing for Online Applications

Orienting is the gateway to attention, the first step in processing stimulus information. This volume examines these initial stages of information intake, focusing on the sensory and motivational mechanisms that determine such phenomena as stimulus selection and inhibition, habituation, pre-attentive processing, and expectancy. Psychophysiological methods are emphasized throughout. The contributors consider analyses based on cardiovascular and electrodermal changes, reflex reactions, and neural events in the cortex and subcortex. Stimulated by a conference lauding Frances Graham -- held before and during a recent meeting of the Society for Psychophysiological Research, the book presents current theory and research by an international cadre of outstanding investigators. A major researcher and theorist in the field of attention for more than three decades, Dr. Graham contributes an Afterword to the present volume which is both a consideration of the work which has gone before, and a new, original theory paper on preattentive processing and attention.

Acts

Since the initial work on constrained clustering, there have been numerous advances in methods, applications, and our understanding of the theoretical properties of constraints and constrained clustering algorithms. Bringing these developments together, *Constrained Clustering: Advances in Algorithms, Theory, and Applications* presents an extensive collection of the latest innovations in clustering data analysis methods that use background knowledge encoded as constraints. Algorithms The first five chapters of this volume investigate advances in the use of instance-level, pairwise constraints for partitional and hierarchical clustering. The book then explores other types of constraints for clustering, including cluster size balancing, minimum cluster size, and cluster-level relational constraints. Theory It also describes

variations of the traditional clustering under constraints problem as well as approximation algorithms with helpful performance guarantees. Applications The book ends by applying clustering with constraints to relational data, privacy-preserving data publishing, and video surveillance data. It discusses an interactive visual clustering approach, a distance metric learning approach, existential constraints, and automatically generated constraints. With contributions from industrial researchers and leading academic experts who pioneered the field, this volume delivers thorough coverage of the capabilities and limitations of constrained clustering methods as well as introduces new types of constraints and clustering algorithms.

Data Mining Applications with R

This 2 volume-set of IFIP AICT 583 and 584 constitutes the refereed proceedings of the 16th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2020, held in Neos Marmaras, Greece, in June 2020.* The 70 full papers and 5 short papers presented were carefully reviewed and selected from 149 submissions. They cover a broad range of topics related to technical, legal, and ethical aspects of artificial intelligence systems and their applications and are organized in the following sections: Part I: classification; clustering - unsupervised learning -analytics; image processing; learning algorithms; neural network modeling; object tracking - object detection systems; ontologies - AI; and sentiment analysis - recommender systems. Part II: AI ethics - law; AI constraints; deep learning - LSTM; fuzzy algebra - fuzzy systems; machine learning; medical - health systems; and natural language. *The conference was held virtually due to the COVID-19 pandemic.

Margaret of York, Simon Marmion, and The Visions of Tondal

This text covers the emerging technologies of document retrieval, information extraction, and text categorization in a way which highlights commonalities in terms of both general principles and practical issues. It seeks to satisfy a need on the part of technology practitioners in the Internet space, faced with having to make difficult decisions as to what research has been done and what the best practices are. It is not intended as a vendor guide (such things are quickly out of date), or as a recipe for building applications (such recipes are very context-dependent). But it does identify the key technologies, the issues involved, and the strengths and weaknesses on evaluation in every chapter, both in terms of methodology (how to evaluate) and what controlled experimentation and industrial experience have to tell us.

Advances in Self-Organizing Maps

International relations are generally understood as a realm of anarchy in which countries lack any superior authority and

interact within a Hobbesian state of nature. In *Hierarchy in International Relations*, David A. Lake challenges this traditional view, demonstrating that states exercise authority over one another in international hierarchies that vary historically but are still pervasive today. Revisiting the concepts of authority and sovereignty, Lake offers a novel view of international relations in which states form social contracts that bind both dominant and subordinate members. The resulting hierarchies have significant effects on the foreign policies of states as well as patterns of international conflict and cooperation. Focusing largely on U.S.-led hierarchies in the contemporary world, Lake provides a compelling account of the origins, functions, and limits of political order in the modern international system. The book is a model of clarity in theory, research design, and the use of evidence. Motivated by concerns about the declining international legitimacy of the United States following the Iraq War, *Hierarchy in International Relations* offers a powerful analytic perspective that has important implications for understanding America's position in the world in the years ahead.

General Surgery Examination and Board Review

This easy-to-use guide covers troubleshooting tips and tricks for Mac hardware and software, written by the well-known Macworld columnist and Macintosh guru Chris Breen. The book contains troubleshooting tips and techniques for both Mac OS 9 and OS X, and additional projects for making a Macintosh more productive-sharing files, making Mac OS X work more like Mac OS 9, and more.

Cognitive and Linguistic Aspects of Geographic Space

This book presents the proceedings of the 17th International Conference on Global Research and Education, Inter-Academia 2018 held in Kaunas, Lithuania on 24–27 September 2018. The main goal of the conference was to provide an international forum to review, stimulate, and understand the recent trends in both fundamental and applied research. In addition to increasing interest in recent research findings, the conference aimed to strengthen the cooperation between the partners of the Inter-Academia community towards new theoretical and practical research advances. The papers included cover topics in the fields of material science and technology, nanotechnology, plasma physics, biotechnology and environmental engineering, electric and electronic engineering, robotics, measurement, identification, and control, soft computing techniques and modeling, multimedia and e-Learning. The book is a valuable scientific reference resource for the global scientific community.

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