

handbook of linguistic annotation springer

****Exploring the Handbook of Linguistic Annotation Springer: A Definitive Guide****

handbook of linguistic annotation springer stands as a pivotal resource for anyone intrigued by the intricate art and science of linguistic annotation. Whether you are a linguist, computational language researcher, or a student stepping into the world of language technology, this comprehensive volume offers a treasure trove of knowledge. Published by Springer, a leading academic publisher, the handbook delves into the methodologies, frameworks, and practical considerations involved in annotating linguistic data—a cornerstone for advancing natural language processing (NLP) and linguistic research.

Understanding the Importance of Linguistic Annotation

Before diving into the specifics of the handbook, it's essential to appreciate why linguistic annotation is so critical. At its core, linguistic annotation involves adding interpretative information—such as part-of-speech tags, syntactic structures, semantic roles, or discourse markers—to raw text or speech data. This enriched data enables machines and researchers to understand and process language more effectively, forming the backbone of applications like machine translation, sentiment analysis, and speech recognition.

The handbook of linguistic annotation Springer addresses these foundational concepts by outlining the diverse types of annotation and their applications. It offers readers clarity on how annotations improve computational models and foster deeper linguistic insights.

What Makes the Handbook of Linguistic Annotation Springer Unique?

Many books touch on language processing, but the handbook sets itself apart by offering a holistic and detailed approach to linguistic annotation. It's not just about theory; the book balances conceptual discussions with practical guidelines and case studies that demonstrate real-world annotation projects.

Diverse Annotation Layers Covered

One of the standout features of this handbook is its coverage of multiple layers of annotation:

- **Morphological Annotation:** Tagging words with their morphological features (e.g., tense, number, gender).
- **Syntactic Annotation:** Representing sentence structure through phrase structures or dependency relations.
- **Semantic Annotation:** Capturing meaning, such as word senses, semantic roles, or named entities.
- **Discourse Annotation:** Understanding relationships between sentences and larger text units.

Each layer is explored with examples, annotation schemes, and challenges, making it a one-stop reference for those building annotated corpora.

Integration of Annotation Frameworks and Tools

The handbook doesn't shy away from technical depth. It introduces popular annotation frameworks like the Text Encoding Initiative (TEI), ISO standards for linguistic annotation, and tools such as ELAN, BRAT, and GATE. This practical lens helps readers choose appropriate tools and standards for their specific projects, optimizing both accuracy and efficiency.

How the Handbook Supports Different Audiences

Whether you're a novice or an experienced annotator, the handbook caters to a broad spectrum of readers.

For Linguists and Language Researchers

The detailed treatment of linguistic theories underpinning annotation schemes helps linguists understand how to formalize complex language phenomena. For instance, the book discusses how to annotate ambiguous constructions or idiomatic expressions—an area that often challenges automated systems.

For Computational Linguists and NLP Practitioners

With growing interest in machine learning and AI applications, annotated corpora have become indispensable. The handbook guides practitioners in creating high-quality datasets, discussing inter-annotator agreement metrics,

annotation guidelines, and quality control, which are crucial for training robust algorithms.

For Students and Educators

Its clear explanations and structured format make the handbook an excellent teaching resource. Educators can use it to design coursework or workshops on corpus linguistics and annotation methodologies.

Practical Tips and Insights from the Handbook

Beyond theory, the handbook offers valuable advice on managing annotation projects effectively.

- **Design Clear Annotation Guidelines:** Ambiguity in annotation instructions leads to inconsistent data. The handbook emphasizes the importance of detailed guidelines with examples to minimize discrepancies.
- **Train Annotators Thoroughly:** Human annotators bring subjectivity; therefore, training sessions and pilot annotations improve reliability.
- **Use Annotation Tools Wisely:** Selecting tools that align with project goals and data formats streamlines the process and reduces errors.
- **Monitor Inter-Annotator Agreement:** Measuring agreement helps identify problematic annotation categories and refines guidelines accordingly.

These practical insights empower project managers and researchers to build better linguistic datasets.

The Role of Springer in Advancing Linguistic Scholarship

Springer, as a renowned academic publisher, ensures that the handbook meets rigorous scholarly standards. Its commitment to quality content means the handbook is frequently updated to reflect the latest advances in linguistic annotation, including emerging trends like multimodal annotation and crowd-sourced data collection.

Moreover, Springer's distribution channels make the handbook accessible globally, facilitating cross-disciplinary collaboration and knowledge

dissemination.

Complementary Resources and Further Reading

For those captivated by the handbook of linguistic annotation Springer, it's beneficial to explore related materials that expand on specific topics:

- **Corpus Linguistics Textbooks:** To understand how annotated corpora are created and analyzed.
- **NLP Research Papers:** For cutting-edge applications of annotated data in machine learning.
- **Annotation Tool Tutorials:** To gain hands-on experience with popular software.

The handbook often references these resources, creating a rich web of knowledge for enthusiasts and professionals alike.

Final Thoughts on the Handbook's Impact

The handbook of linguistic annotation Springer is more than just a textbook—it's a roadmap guiding the complex journey of transforming raw language data into structured, meaningful information. Its balanced blend of theory, methodology, and practical advice equips readers with the skills necessary to contribute to the ever-evolving landscape of language technology.

As language continues to be a central element of human-computer interaction, the insights and frameworks presented in this handbook will remain invaluable for developing smarter, more intuitive linguistic applications. Whether you're annotating a small dataset or orchestrating a large-scale linguistic project, this resource offers the clarity and depth needed to succeed.

Frequently Asked Questions

What is the 'Handbook of Linguistic Annotation' published by Springer?

The 'Handbook of Linguistic Annotation' published by Springer is a comprehensive reference work that covers various methods, standards, and tools for annotating linguistic data, providing guidelines and best practices for researchers in computational linguistics and language technology.

Who are the editors of the 'Handbook of Linguistic Annotation' by Springer?

The handbook is edited by Nancy Ide and James Pustejovsky, who are well-known experts in the field of linguistic annotation and natural language processing.

What topics are covered in the 'Handbook of Linguistic Annotation' from Springer?

The handbook covers a wide range of topics including morphosyntactic annotation, semantic annotation, discourse annotation, speech annotation, multimodal annotation, annotation tools, standards, and best practices for creating and managing linguistic annotations.

How can the 'Handbook of Linguistic Annotation' help researchers?

The handbook provides researchers with detailed methodologies, standardized annotation schemes, and practical guidelines, helping them create high-quality annotated corpora for linguistic analysis and natural language processing applications.

Is the 'Handbook of Linguistic Annotation' suitable for beginners?

While the handbook is thorough and technical, it is designed to be accessible to both newcomers and experienced researchers by providing foundational concepts as well as advanced annotation techniques.

Where can I access or purchase the 'Handbook of Linguistic Annotation' by Springer?

The handbook can be accessed or purchased through Springer's official website, academic libraries, and online book retailers such as Amazon. It is available in both print and electronic formats.

Does the 'Handbook of Linguistic Annotation' include information on annotation tools?

Yes, the handbook includes detailed discussions on various annotation tools and software that facilitate the linguistic annotation process, helping users choose appropriate tools for their projects.

Are there any standards or frameworks discussed in the 'Handbook of Linguistic Annotation'?

The handbook discusses several annotation standards and frameworks, such as the ISO standards for linguistic annotation, and offers guidance on how to implement and adapt these standards in annotation projects.

How frequently is the 'Handbook of Linguistic Annotation' updated or revised?

As a comprehensive scholarly resource, the handbook is updated infrequently; new editions or revisions are published to reflect advances in linguistic annotation methodologies and technology, but users should check Springer's website for the latest edition.

Additional Resources

****Handbook of Linguistic Annotation Springer: A Definitive Resource for Language Researchers****

handbook of linguistic annotation springer stands as a pivotal reference in the realm of computational linguistics and language technology. Published by Springer, this comprehensive volume addresses the complexities of linguistic annotation—a foundational process in the analysis, processing, and understanding of natural language data. As linguistic annotation becomes increasingly vital for applications ranging from machine translation to sentiment analysis, this handbook offers a thorough exploration of theoretical frameworks, practical methodologies, and emerging standards that shape the discipline.

Linguistic annotation involves the systematic labeling of language data with metadata that captures grammatical, semantic, or pragmatic information. This process empowers machines to parse and interpret human language, bridging the gap between raw text and meaningful insights. The **Handbook of Linguistic Annotation** by Springer thus occupies an essential niche, catering to linguists, data scientists, and developers who seek a detailed yet accessible guide to both foundational and cutting-edge annotation techniques.

Comprehensive Coverage of Linguistic Annotation Concepts

One of the most remarkable attributes of the **Handbook of Linguistic Annotation Springer** is its breadth and depth. It systematically covers a wide array of annotation types, including morphological, syntactic, semantic, and discourse-level annotations. By doing so, the book transcends superficial overviews and delves into the nuances of each annotation layer, providing

readers with both theoretical underpinnings and practical implementation strategies.

The volume also addresses the challenges inherent in linguistic annotation, such as ambiguity resolution, annotation consistency, and inter-annotator agreement. These challenges are critical for ensuring the reliability of annotated corpora, which in turn influences the quality of downstream natural language processing (NLP) systems. Springer's handbook offers insights into best practices for annotation schema design and quality control measures, making it an indispensable resource for research teams engaged in corpus development.

Integration of Annotation Tools and Technologies

Beyond theoretical discussions, the *Handbook of Linguistic Annotation Springer* distinguishes itself through its detailed examination of annotation tools and platforms. It evaluates various software solutions that support the annotation process, such as ELAN, BRAT, and WebAnno, highlighting their strengths and limitations. This guidance assists practitioners in selecting appropriate tools tailored to their project requirements, whether they involve small-scale manual annotation or large-scale automated workflows.

Moreover, the handbook explores the role of machine learning in annotation, emphasizing semi-automatic and automatic annotation paradigms. It presents case studies where machine-assisted annotation accelerates the creation of annotated datasets while maintaining high accuracy. This focus on technology integration reflects the evolving landscape of linguistic annotation, where human expertise and computational efficiency increasingly converge.

Relevance in the Era of Big Data and AI

The timing and relevance of the *Handbook of Linguistic Annotation Springer* cannot be overstated in the context of today's data-driven environment. As AI systems rely heavily on annotated corpora for training and evaluation, the book's comprehensive treatment of annotation standards becomes crucial. It discusses widely adopted frameworks such as the Linguistic Annotation Framework (LAF) and ISO standards, which promote interoperability and reproducibility in annotation projects.

In addition, the handbook addresses the growing importance of multilingual and cross-linguistic annotation. It recognizes the challenges posed by linguistic diversity and the scarcity of resources for underrepresented languages, which are critical issues for global NLP applications. By providing strategies and examples for annotating diverse languages, the book contributes to the democratization of language technology.

Comparative Analysis with Other Linguistic Annotation References

When positioned alongside other seminal works in linguistic annotation, the *Handbook of Linguistic Annotation* Springer holds its own through its holistic approach. Unlike narrowly focused manuals that concentrate solely on syntax or semantics, this handbook integrates multiple layers of annotation, reflecting the multifaceted nature of language.

For example, compared to specialized texts such as *Corpus Linguistics: An Introduction* or *Annotation in Natural Language Processing*, Springer's handbook offers a more unified framework that combines theory, annotation schema design, and practical tool usage. This multidimensional perspective makes it particularly suitable for both academic study and applied research contexts.

Practical Features and User-Friendly Elements

The handbook's structure and presentation further enhance its value. It is organized into clear sections with well-defined objectives, allowing readers to navigate complex topics with ease. Each chapter includes illustrative examples, diagrams, and annotated data samples that concretize abstract concepts. These pedagogical elements facilitate comprehension, especially for newcomers to linguistic annotation.

Additionally, the inclusion of case studies and real-world project accounts provides readers with tangible insights into how annotation strategies are deployed in diverse linguistic projects, ranging from speech corpora to social media text analysis. This pragmatic orientation bridges the gap between theoretical knowledge and field practice.

Pros and Cons of the Handbook

- **Pros:**

- Comprehensive coverage of annotation types and methodologies
- Integration of theoretical and practical perspectives
- Discussion of contemporary standards and tools
- Accessible writing style with clear examples
- Focus on multilingual and cross-domain applicability

- **Cons:**

- Dense content may be challenging for absolute beginners
- Some rapidly evolving tool sections may become outdated
- Limited focus on emerging annotation formats like multimodal annotation

Impact on Linguistic Annotation Research and Industry

Since its publication, the **Handbook of Linguistic Annotation Springer** has become a reference point for both academic researchers and industry practitioners. Universities incorporate it into computational linguistics curricula, while research labs and language technology companies use it to standardize annotation workflows. Its influence extends to the development of annotated datasets that underpin state-of-the-art NLP models, thereby shaping the evolution of language technologies.

The book's emphasis on quality assurance and annotation standards aligns with the increasing demand for reproducibility and transparency in data-driven research. In an age where annotated corpora are considered valuable intellectual assets, the handbook's guidance ensures that such resources are created with rigor and sustainability in mind.

The **Handbook of Linguistic Annotation Springer** ultimately reflects the maturation of linguistic annotation as both a scientific discipline and a practical necessity. It serves not only as a manual but also as a scholarly dialogue that encourages ongoing innovation and critical reflection within the linguistic community.

As natural language processing continues to advance and diversify, resources like this handbook remain essential for equipping researchers and developers with the knowledge and tools necessary to navigate the complexities of language annotation. Its comprehensive scope and balanced analysis make it an enduring cornerstone in the field.

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handbook of linguistic annotation springer: Handbook of Linguistic Annotation Nancy Ide, James Pustejovsky, 2017-06-16 This handbook offers a thorough treatment of the science of linguistic annotation. Leaders in the field guide the reader through the process of modeling, creating an annotation language, building a corpus and evaluating it for correctness. Essential reading for both computer scientists and linguistic researchers. Linguistic annotation is an increasingly important activity in the field of computational linguistics because of its critical role in the development of language models for natural language processing applications. Part one of this book covers all phases of the linguistic annotation process, from annotation scheme design and choice of representation format through both the manual and automatic annotation process, evaluation, and iterative improvement of annotation accuracy. The second part of the book includes case studies of annotation projects across the spectrum of linguistic annotation types, including morpho-syntactic tagging, syntactic analyses, a range of semantic analyses (semantic roles, named entities, sentiment and opinion), time and event and spatial analyses, and discourse level analyses including discourse structure, co-reference, etc. Each case study addresses the various phases and processes discussed in the chapters of part one.

handbook of linguistic annotation springer: The Open Handbook of Linguistic Data Management Andrea L. Berez-Kroeker, Bradley McDonnell, Eve Koller, Lauren B. Collister, 2022-01-18 A guide to principles and methods for the management, archiving, sharing, and citing of linguistic research data, especially digital data. Doing language science depends on collecting, transcribing, annotating, analyzing, storing, and sharing linguistic research data. This volume offers a guide to linguistic data management, engaging with current trends toward the transformation of linguistics into a more data-driven and reproducible scientific endeavor. It offers both principles and methods, presenting the conceptual foundations of linguistic data management and a series of case studies, each of which demonstrates a concrete application of abstract principles in a current practice. In part 1, contributors bring together knowledge from information science, archiving, and data stewardship relevant to linguistic data management. Topics covered include implementation principles, archiving data, finding and using datasets, and the valuation of time and effort involved in data management. Part 2 presents snapshots of practices across various subfields, with each chapter presenting a unique data management project with generalizable guidance for researchers. The Open Handbook of Linguistic Data Management is an essential addition to the toolkit of every linguist, guiding researchers toward making their data FAIR: Findable, Accessible, Interoperable, and Reusable.

handbook of linguistic annotation springer: Annotation-Based Semantics for Space and Time in Language Kiyong Lee, 2023-06-29 Space and time representation in language is important in linguistics and cognitive science research, as well as artificial intelligence applications like conversational robots and navigation systems. This book is the first for linguists and computer scientists that shows how to do model-theoretic semantics for temporal or spatial information in natural language, based on annotation structures. The book covers the entire cycle of developing a specification for annotation and the implementation of the model over the appropriate corpus for linguistic annotation. Its representation language is a type-theoretic, first-order logic in shallow semantics. Each interpretation model is delimited by a set of definitions of logical predicates used in semantic representations (e.g., past) or measuring expressions (e.g., counts or k). The counting

function is then defined as a set and its cardinality, involving a universal quantification in a model. This definition then delineates a set of admissible models for interpretation.

handbook of linguistic annotation springer: [Annotations in Scholarly Editions and Research](#)
Julia Nantke, Frederik Schlupkothén, 2020-10-26 The term 'annotation' is associated in the Humanities and Technical Sciences with different concepts that vary in coverage, application and direction but which also have instructive parallels. This publication mirrors the increasing cooperation that has been taking place between the two disciplines within the scope of the digitalization of the Humanities. It presents the results of an international conference on the concept of annotation that took place at the University of Wuppertal in February 2019. This publication reflects on different practices and associated concepts of annotation in an interdisciplinary perspective, puts them in relation to each other and attempts to systematize their commonalities and divergences. The following dynamic visualizations allow an interactive navigation within the volume based on keywords: Wordcloud , Matrix , Edge Bundling 

handbook of linguistic annotation springer: [The Oxford Handbook of Approaches to Language Evolution](#)
Limor Raviv, Cedric Boeckx, 2025-04-30 This handbook provides a detailed account of the many methodological tools and approaches used in the field of language evolution. The field has seen a rapid growth over the last decade, with a greater focus on empirical data and interdisciplinary syntheses. This volume aims to make sense of these recent developments, to provide a clear map of the current research landscape, and to showcase some of the most important advances. Each chapter highlights a particular methodology and outlines a question or set of questions that can be addressed using that methodology, illustrated by a key example from the recent literature. The volume is divided into three parts. Part I showcases the many ways in which humans can shed light on the evolution of language when placed in specific experimental settings, as well as discussing the use of clinical, genetic, observational and historical data. Part II is devoted to simulations and models that enable the careful control of biases, mechanisms, and environments, while Part III revolves around the idea that the study of non-human animals can provide valuable insights into the evolution of human language. The handbook as a whole demonstrates that multiple complimentary approaches are necessary to do justice to the complexity of language evolution.

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Manuel Diaz-Campos, Sonia Balasch, 2023-07-05 The Handbook of Usage-Based Linguistics The Handbook of Usage-Based Linguistics is the first edited volume to provide a comprehensive, authoritative, and interdisciplinary view of usage-based theory in linguistics. Contributions by an international team of established and emerging scholars discuss the application of used-based approaches in phonology, morphosyntax, psycholinguistics, language variation and change, language development, cognitive linguistics, and other subfields of linguistics. Unprecedented in depth and scope, this groundbreaking work of scholarship addresses all major theoretical and methodological aspects of usage-based linguistics while offering diverse perspectives and key insights into theory, history, and methodology. Throughout the text, in-depth essays explore up-to-date methodologies, emerging approaches, new technologies, and cutting-edge research in usage-based linguistics in many languages and subdisciplines. Topics include used-based approaches to subfields such as anthropological linguistics, computational linguistics, statistical analysis, and corpus linguistics. Covering the conceptual foundations, historical development, and future directions of usage-based theory, The Handbook of Usage-Based Linguistics is a must-have reference work for advanced students and scholars in anthropological linguistics, psycholinguistics, cognitive linguistics, corpora analysis, and other subfields of linguistics.

handbook of linguistic annotation springer: [Bilingual Writers and Corpus Analysis](#)
David M. Palfreyman, Nizar Habash, 2022-12-23 This innovative volume is one of the first to represent the usage of bilingual writers in both their languages, offering insight into language corpora as extremely valuable tools in contemporary applied linguistics research, and in turn, into how much of the world's population operate daily. This book discusses one of the first examples of a bilingual writer corpus, the Zayed Arabic-English Bilingual Undergraduate Corpus (ZAEBUC), which

includes writing by hundreds of students in two languages, with additional information about the writers and the texts. The result is a rich resource for research in multilingual use and learning of language. The book takes the reader through the design and use of such a corpus and illustrates the potential of this type of corpus with detailed studies that show how assessment, vocabulary, and discourse work across two very different languages. This volume will be of interest to scholars, policymakers, and educators in bilingualism, plurilingualism, language education, corpus design, and natural language processing.

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handbook of linguistic annotation springer: *Linguistics for the Age of AI* Marjorie McShane, Sergei Nirenburg, 2021-03-02 A human-inspired, linguistically sophisticated model of language understanding for intelligent agent systems. One of the original goals of artificial intelligence research was to endow intelligent agents with human-level natural language capabilities. Recent AI research, however, has focused on applying statistical and machine learning approaches to big data rather than attempting to model what people do and how they do it. In this book, Marjorie McShane and Sergei Nirenburg return to the original goal of recreating human-level intelligence in a machine. They present a human-inspired, linguistically sophisticated model of language understanding for intelligent agent systems that emphasizes meaning--the deep, context-sensitive meaning that a person derives from spoken or written language.

handbook of linguistic annotation springer: *Slowing Metaphor Down* Gerard J. Steen, 2023-06-15 If thinking can be fast or slow, metaphorical thinking can be fast and slow too. But metaphorical thinking does not occur as often and in the ways that many metaphor scholars today think. Slow metaphorical thinking does mean, however, that we can exert more control over metaphor than has previously been acknowledged. We can even offer resistance to metaphor. Deliberate Metaphor Theory (DMT) claims that there is an essential processing difference between non-deliberate and deliberate metaphor use which can explain all this. This book is the first full account of the DMT model for metaphor comprehension. It presents explicit conceptualization and formal operationalization, and is based on a well-known cognitive-psychological model for all utterance comprehension in discourse. The original three-dimensional model of DMT is here refined into a four-dimensional model, which reveals new research questions and discoveries about the use of metaphor. The book brings together numerous cognitive-scientific insights into metaphor. It has a high degree of interdisciplinary accessibility to all students of metaphor, whether master students, PhDs, post docs, or established academics.

handbook of linguistic annotation springer: *Legal Knowledge and Information Systems* M. Palmirani, 2018-12-12 Artificial intelligence as applied to the legal domain has gained momentum thanks to the large, annotated corporate legal and case-law collections, human chats, and social media information now available in open data. Often represented in XML or other Semantic Web technologies, these now make it possible to use the AI theory developed by the JURIX community in

over thirty years of research. Innovative machine and deep-learning techniques with which to classify legal texts and detect terms, principles, concepts, evidence, named entities, and rules are also emerging, and the last five years have seen a gradual increase in their practical application. This book presents papers from the 31st International Conference on Legal Knowledge and Information Systems (JURIX 2018), held in Groningen, the Netherlands, in December 2018. The support of the Dutch Foundation for Legal Knowledge Based Systems for the JURIX conference has transformed a domestic workshop into an international event, with theoretical contributions, applied work, demo prototypes, a hackathon, and a doctoral consortium. Of the 72 submissions received, 17 full papers and 11 short papers were selected for publication, representing an acceptance rate of approximately 38%. Machine learning for the legal domain prevails in the JURIX 2018 program, with traditional research mainstreams concerning legal reasoning and argumentation, natural-language processing, legal-text retrieval, and legal semantic modelling. An emerging topic is blockchain, which has graduated from the workshop area to the main program. The book offers an overview of the ways in which innovative information technologies are merging with legal theory, argumentation, and practice.

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handbook of linguistic annotation springer: Researching Metaphors Michele Prandi, Micaela Rossi, 2022-09-07 This collection advocates for a more holistic picture of metaphor, extending the field's focus beyond the cognitive paradigm and conventional metaphorical concepts to illustrate the possibilities afforded by the study of living metaphors. The volume brings together a diverse range of researchers in the discipline towards critically examining the presuppositions of the cognitive approach. The book shines a light on living metaphors – creative interpretations of conflictual meaning specific to a text or communicative act with their own unique functions – to throw into relief long-held tenets in existing metaphor research. Chapters reflect on the notion that creative metaphors spring from independent sources, not merely from metaphorical concepts, and the subsequent implications for our understanding of the relationship between linguistic forms and conceptual structures and the role of creative metaphors in organizing thought and action. Taken together, the book offers a complementary vision of languages and figures which integrates disparate lines of study within the cognitive paradigm with alternative perspectives for a more comprehensive portrait of metaphors. This book will be of interest to students and scholars interested in the study of metaphor, including such disciplines as theoretical linguistics, cognitive linguistics, semantics, literary studies, and philosophy of language.

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handbook of linguistic annotation springer: *Multiword expressions at length and in depth* Stella Markantonatou , Carlos Ramisch , Agata Savary , Veronika Vincze , 2018 The annual workshop on multiword expressions takes place since 2001 in conjunction with major computational linguistics conferences and attracts the attention of an ever-growing community working on a variety of languages, linguistic phenomena and related computational processing issues. MWE 2017 took place in Valencia, Spain, and represented a vibrant panorama of the current research landscape on the computational treatment of multiword expressions, featuring many high-quality submissions. Furthermore, MWE 2017 included the first shared task on multilingual identification of verbal multiword expressions. The shared task, with extended communal work, has developed important multilingual resources and mobilised several research groups in computational linguistics worldwide. This book contains extended versions of selected papers from the workshop. Authors worked hard to include detailed explanations, broader and deeper analyses, and new exciting results, which were thoroughly reviewed by an internationally renowned committee. We hope that this distinctly joint effort will provide a meaningful and useful snapshot of the multilingual state of the art in multiword expressions modelling and processing, and will be a point point of reference for future work.

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handbook of linguistic annotation springer: Elgar Encyclopedia of Law and Data Science Comandé, Giovanni, 2022-02-18 This Encyclopedia brings together jurists, computer scientists, and data analysts to map the emerging field of data science and law for the first time, uncovering the challenges, opportunities, and fault lines that arise as these groups are increasingly thrown together by expanding attempts to regulate and adapt to a data-driven world. It explains the concepts and tools at the crossroads of the many disciplines involved in data science and law, bridging scientific and applied domains. Entries span algorithmic fairness, consent, data protection, ethics, healthcare, machine learning, patents, surveillance, transparency and vulnerability.

handbook of linguistic annotation springer: Research Handbook on the Law of Artificial Intelligence Woodrow Barfield, Ugo Pagallo, 2018-12-28 The field of artificial intelligence (AI) has made tremendous advances in the last two decades, but as smart as AI is now, it is getting smarter

and becoming more autonomous. This raises a host of challenges to current legal doctrine, including whether AI/algorithms should count as ‘speech’, whether AI should be regulated under antitrust and criminal law statutes, and whether AI should be considered as an agent under agency law or be held responsible for injuries under tort law. This book contains chapters from US and international law scholars on the role of law in an age of increasingly smart AI, addressing these and other issues that are critical to the evolution of the field.

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