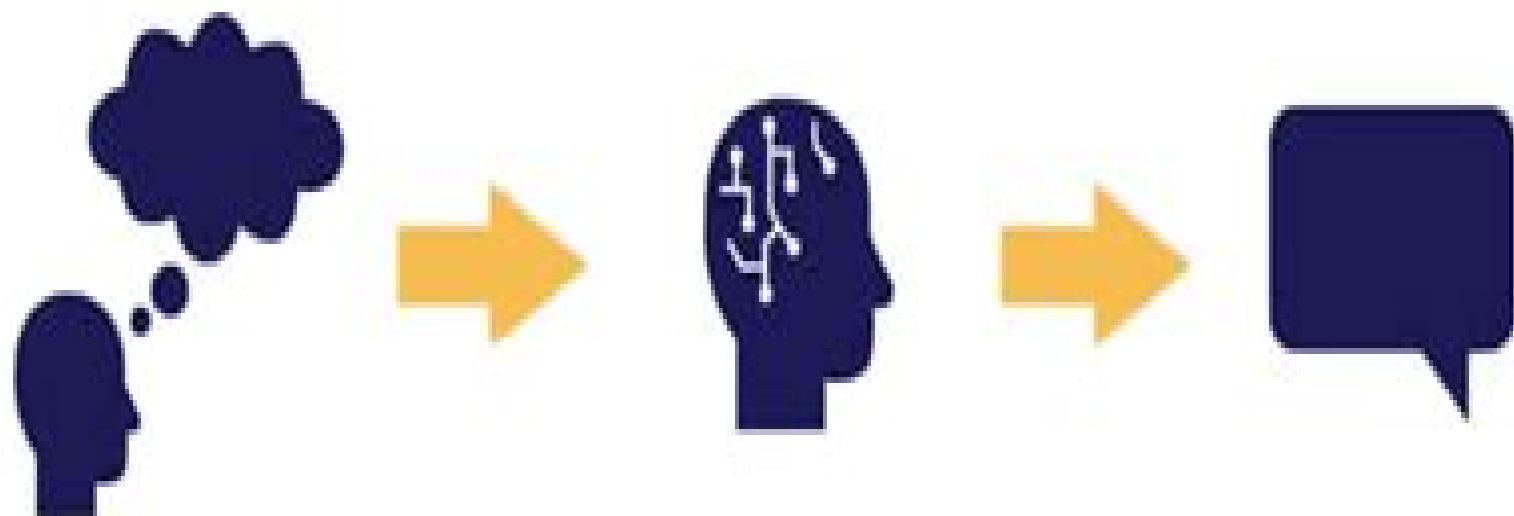


Natural Language
Understanding

Machine Learning

Natural Language
Generation



Natural Language Generation Systems

David D. McDonald, Leonard Bolc



Natural Language Generation Systems:

Building Natural Language Generation Systems Ehud Reiter, Robert Dale, 2000-01-28 This book explains how to build Natural Language Generation NLG systems computer software systems which use techniques from artificial intelligence and computational linguistics to automatically generate understandable texts in English or other human languages either in isolation or as part of multimedia documents Web pages and speech output systems Typically starting from some non linguistic representation of information as input NLG systems use knowledge about language and the application domain to automatically produce documents reports explanations help messages and other kinds of texts The book covers the algorithms and representations needed to perform the core tasks of document planning microplanning and surface realization using a case study to show how these components fit together It also discusses engineering issues such as system architecture requirements analysis and the integration of text generation into multimedia and speech output systems

Natural Language Generation Systems David D. McDonald, Leonard Bolc, 2012-12-06 Natural language generation is a field within artificial intelligence which looks ahead to the future when machines will communicate complex thoughts to their human users in a natural way Generation systems supply the sophisticated knowledge about natural languages that must come into play when one needs to use wordings that will overpower techniques based only on symbolic string manipulation techniques Topics covered in this volume include discourse theory mechanical translation deliberate writing and revision Natural Language Generation Systems contains contributions by leading researchers in the field Chapters contain details of grammatical treatments and processing seldom reported on outside of full length monographs

Building Natural Language Generation Systems Ehud Reiter, Robert Dale, 2009-08-25 This book explains how to build Natural Language Generation NLG systems computer software systems that automatically generate understandable texts in English or other human languages NLG systems use knowledge about language and the application domain to automatically produce documents reports explanations help messages and other kinds of texts The book covers the algorithms and representations needed to perform the core tasks of document planning microplanning and surface realization using a case study to show how these components fit together It is essential reading for researchers interested in NLP AI and HCI and for developers interested in advanced document creation technology

New Concepts in Natural Language Generation Helmut Horacek, 2015-12-17 This book aims to inform researchers with an interest in natural language generation about advances in the field It is organised around four topics system architectures content planning discourse planning and realisation in linguistic form and it presents some of the most important works in this area of research

Natural Language Generation in Interactive Systems Amanda Stent, Srinivas Bangalore, 2014-06-12 An informative and comprehensive overview of the state of the art in natural language generation NLG for interactive systems this guide serves to introduce graduate students and new researchers to the field of natural language processing and artificial intelligence while inspiring

them with ideas for future research. Detailing the techniques and challenges of NLG for interactive applications, it focuses on the research into systems that model collaborativity and uncertainty, are capable of being scaled incrementally, and can engage with the user effectively. A range of real world case studies is also included. The book and the accompanying website feature a comprehensive bibliography and refer the reader to corpora, data software, and other resources for pursuing research on natural language generation and interactive systems, including dialog systems, multimodal interfaces, and assistive technologies. It is an ideal resource for students and researchers in computational linguistics, natural language processing, and related fields.

Aspects of Automated Natural Language Generation Robert Dale, 1992-03-25. This volume presents the proceedings of the Sixth International Workshop on Automated Natural Language Generation held in Castel Ivano, Trento, Italy, April 5-7, 1992. Besides an invited lecture by Nadia Magnenat Thalmann, a well-known researcher in computer animation on creating and visualizing speech and emotion, the volume includes the 17 thoroughly reviewed papers accepted for presentation, selected out of the submissions to the Workshop, as well as 11 statements contributed to panels on multilinguality and generation or extending language generation to multiple media. The accepted papers by leading researchers from Japan, North America, and Europe fall in sections on generator system architecture, issues in realisation, issues in discourse structure, and beyond traditional generation.

Natural Language Generation Ehud Reiter, 2024-10-15. In late 2022, the prominence of Natural Language Generation (NLG) surged with the advent of advanced language models like ChatGPT. While these developments have captivated both academic and commercial sectors, the focus has predominantly been on the latest innovations, often overlooking the rich history and foundational work in NLG. This book aims to provide a comprehensive overview of NLG, encompassing not only language models but also alternative approaches, user requirements, evaluation methods, safety, and testing protocols, and practical applications. Drawing on decades of NLG research, the book is designed to be a valuable resource for both researchers and developers, offering insights that remain relevant far beyond the current technological landscape. Natural Language Generation focuses on data-to-text but also looks at other types of NLG, including text summarization. The book takes a holistic approach to NLG, looking at requirements, what users are looking for, design, data issues, testing, evaluation, safety, and ethical issues, as well as technology. The holistic approach is unique to this book and is very valuable for people building real-world NLG systems and for academics and researchers who are interested in applied NLG. The author, who previously co-authored a seminal NLG book in 2000, emphasizes high-level concepts and methodologies, ensuring the material's longevity and utility. The book is structured to balance technical depth with practical relevance, including chapters on rule-based and neural NLG approaches, user requirements, rigorous evaluation techniques, and safety considerations. Real-world applications, particularly in journalism, business intelligence, summarization, and medicine, are explored to illustrate NLG's potential and scalability. With personal anecdotes and examples from the author's experiences, this book provides a unique and engaging perspective on the evolving field of NLG, making it an indispensable

guide for those looking to harness the power of language generation technologies Integrated Natural Language Generation with Schema-TAGs Jens Woch, 2003 Natural Language Generation Anja Belz, Roger Evans, Paul Piwek, 2011-04-02

The Third International Conference on Natural Language Generation INLG 2004 was held from 14th to 16th July 2004 at Careys Manor Brockenhurst UK Supported by the Association for Computational Linguistics Special Interest Group on Generation the conference continued a twenty year tradition of biennial international meetings on research into natural language generation Recent conference venues have included Mitzpe Ramon Israel INLG 2000 and New York USA INLG 2002 It was our pleasure to invite the thriving and friendly NLG research community to the beautiful New Forest in the south of England for INLG 2004 INLG is the leading international conference in the field of natural language generation It provides a forum for the presentation and discussion of original research on all aspects of the generation of language including psychological modelling of human language production as well as computational approaches to the automatic generation of language This volume includes a paper by the keynote speaker Ardi Roelofs of the Max Planck Institute for Psycholinguistics and the F C Donders Centre for Cognitive Neuroimaging 18 regular papers reporting the latest research results and directions and 4 student papers describing doctoral work in progress These papers reveal a particular concentration of current research effort on statistical and machine learning methods on referring expressions and on variation in surface realisation The papers were selected from 46 submissions from all over the world 27 from Europe 13 from North America 6 from elsewhere which were subjected to a rigorous double blind reviewing process undertaken by our hard working programme committee **Empirical Methods in Natural Language Generation** Emiel Krahmer, Mariet Theune, 2010-08-17

Natural language generation NLG is a subfield of natural language processing NLP that is often characterized as the study of automatically converting non linguistic representations e.g. from databases or other knowledge sources into coherent natural language text In recent years the field has evolved substantially Perhaps the most important new development is the current emphasis on data oriented methods and empirical evaluation Progress in related areas such as machine translation dialogue system design and automatic text summarization and the resulting awareness of the importance of language generation the increasing availability of suitable corpora in recent years and the organization of shared tasks for NLG where different teams of researchers develop and evaluate their algorithms on a shared held out data set have had a considerable impact on the field and this book offers the first comprehensive overview of recent empirically oriented NLG research

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