

《牛津计算语言学手册》

图书基本信息

书名：《牛津计算语言学手册》

13位ISBN编号：9787560089133

10位ISBN编号：7560089135

出版时间：2009-9

出版社：外语教学与研究出版社

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页数：784

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前言

Computational Linguistics is an interdisciplinary field concerned with the processing of language by computers. Since machine translation began to emerge some fifty years ago (see Martin Kay's introduction below) , Computational Linguistics has grown and developed exponentially. It has expanded theoretically through the development of computational and formal models of language. In the process it has vastly increased the range and usefulness of its applications. At a time of continuing and vigorous growth the Oxford Handbook of Computational Linguistics provides a much-needed reference and guide. It aims to be of use to everyone interested in the subject , including students wanting to familiarize themselves with its key areas , researchers in other areas in search of an appropriate model or method , and those already working in the field who want to discover the latest developments in areas adjacent to their own. The Handbook is structured in three parts which reflect a natural progression from theory to applications. Part I introduces the fundamentals : it considers , from a computational perspective , the main areas of linguistics such as phonology , morphology , lexicography , syntax , semantics , discourse , pragmatics , and dialogue. It also looks at central issues in mathematical linguistics such as formal grammars and languages , and complexity. Part II is devoted to the basic stages , tasks , methods , and resources in and required for automatic language processing. It examines text segmentation , part-of-speech tagging , parsing , word-sense disambiguation , anaphora resolution , natural language generation , speech recognition , text-to-speech synthesis , finite state technology , statistical methods , machine learning , lexical knowledge acquisition , evaluation , sub-languages , controlled languages , corpora , ontologies , and tree-adjoining grammars. Part III describes the main real-world applications based on Computational Linguistics techniques , including machine translation , information retrieval , information extraction , question answering , text summarization , term extraction , text data mining , natural language interfaces , spoken dialogue systems , multimodal/multimedia systems , computer-aided language learning , and multilingual on-line language processing.

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内容概要

《牛津计算语言学手册》内容简介：《牛津计算语言学手册》是一部手册性的计算语言学专著，收录了包括语言学家、计算机专家和语言工程人员在内的50位学者撰写的综述性文章，全面地反映了国外计算语言学主要领域的最新成果，是我们了解国外计算语言学发展动向的一个窗口。全书各章写作风格一致，内容协调，浑然一体，使用有趣的实例来介绍艰深的技术问题，而且尽量不使用繁难的数学公式，尤其适合文科背景的读者阅读。对于那些对计算语言学感兴趣和刚入门的读者而言，《牛津计算语言学手册》也是一本必备的参考书。

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书籍目录

Preface

Abbreviations

Introduction

PART I FUNDAMENTALS

PART II PROCESSES, METHODS, AND RESOURCES

PART III APPLICATIONS.

章节摘录

If morphophonological processes in a language are few and local the lemma lexi-con approach can still be successful. In our example it suffices to assume two plural endings: -s and -es. For all base forms it must be specified whether the former or the latter of the two endings may be attached. Apart from the obvious limitations with regard to the treatment of morphophonological rules on a more general scale the approach has some other inherent restrictions: The algorithm is geared towards analysis. For generation purposes, one needs a completely different algorithm and data. Interpretation algorithms are language specific because they encode both the basic concatenation algorithm and the specific exception-handling mechanism. The approach was developed for morphosyntactic analysis. An extension to handle more generally the segmenting of word forms into morphs is difficult to achieve.

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精彩短评

- 1、 计算语言学的必读之书
 - 2、 本书各章的作者都是该领域内的国际知名学者，具有权威性。正是由于这个原因，我向大家推荐此书。
 - 3、 计算语言学学习的好参考书，买了还没读，有时间翻翻。
 - 4、 该书对语音处理讲解较少，主要内容是自然语言处理和语法处理。适合计算语法学和自然语言处理方面的研究者。
 - 5、 各篇文章的作者都很有名，介绍了计算语言学的多个方面，是必备参考资料
 - 6、 看过一章，没懂
 - 7、 读过原版的，这个影印版有冯志伟先生的一个导读
 - 8、 赞爆了有木有！读瞎了有木有！读完了还是找不上工作有木有。。。。。
 - 9、 各章节是不同的人写的，但是整体看起来还挺有体系的。
- 英文原版似乎是2005年出版的。
其实语言学方面的英文比起地质 生物 法律 来说还算是简单的。

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