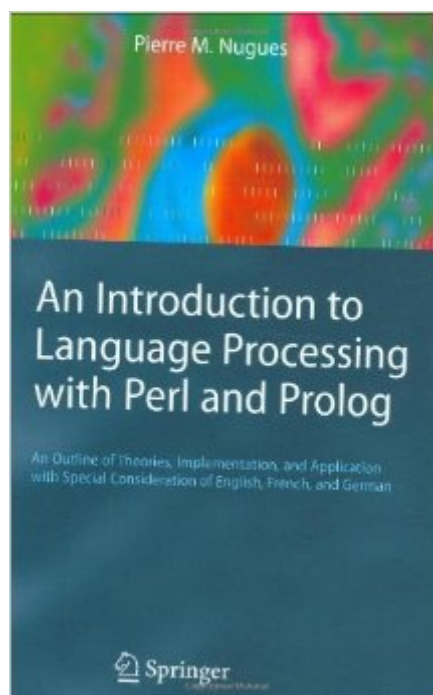# An Introduction To Language Processing With Perl And Prolog: 260 (Cognitive Technologies)

Synopsis

The areas of natural language processing and computational linguistics have continued to grow in recent years, driven by the demand to automatically process text and spoken data. With the processing power and techniques now available, research is scaling up from lab prototypes to real-world, proven applications. This book teaches the principles of natural language processing, first covering linguistics issues such as encoding, entropy, and annotation schemes; defining words, tokens and parts of speech; and morphology. It then details the language-processing functions involved, including part-of-speech tagging using rules and stochastic techniques; using Prolog to write phase-structure grammars; parsing techniques and syntactic formalisms; semantics, predicate logic and lexical semantics; and analysis of discourse, and applications in dialog systems. The key feature of the book is the author's hands-on approach throughout, with extensive exercises, sample code in Prolog and Perl, and a detailed introduction to Prolog. The reader is supported with a companion website that contains teaching slides, programs, and additional material. The book is suitable for researchers and students of natural language processing and computational linguistics.

Book Information

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Customer Reviews

This book has the same scope as Speech and Language Processing (2nd Edition) (Prentice Hall Series in Artificial Intelligence), but that book flies too high over the details. This book does a good job of covering the details without getting lost in them. The author takes the approach of explaining a concept first with excellent illustrations, then explains the algorithm that implements the concept, then shows detailed code in either Prolog or PERL.This is not to say you can pick up this book without the proper background and get much out of it. Language processing is a field requiring a good background in a number of fields including the theory of computation, linguistics, artificial intelligence, and information theory to name a few. You should be familiar with all of these fields before tackling the book, although the author does introduce these topics somewhat before digging into details.One thing the author does not do much of is explain Prolog or PERL. He assumes you already know these languages, although there is an appendix at the back of the book covering Prolog. Prolog is a difficult language to learn and is not at all intuitive. However, it is an excellent choice for coding up many algorithms concerning artificial intelligence. Thus, although I do not argue with the author's choice of language, I do recommend that you become fluent in Prolog before you read this book.I used to recommend Jurafsky and Martin for people starting out learning language processing, but now I think I can recommend this book for not only the big picture but the details of this interesting field as well.

This is a wonderful, code rich, book on language processing for computational linguists and language engineers. It is both theory and example rich with considerable detail throughout. The book is clearly written and very well structured!!Highly recommended!

Subject matter, depth and breadth are just right. I work in both Perl and Prolog. Author's command of English is not perfect, but tolerable.

Prolog Programming; Success in a Day: Beginners Guide to Fast, Easy and Efficient Learning of Prolog Programming (Prolog, Prolog Programming, Prolog Logic, ... Programming, Programming Code, Java) An Introduction to Language Processing with Perl and Prolog: 260 (Cognitive Technologies) Effective Perl Programming: Ways to Write Better, More Idiomatic Perl (Effective Software Development Series) Body Language: Body Language Training - Attract Women & Command Respect, by Mastering Your High Status Body Language (Body Language Attraction, Body Language ... Language Secrets, Nonverbal Communication) Natural Language Processing for Historical Texts (Synthesis Lectures on Human Language Technologies) Bayesian Signal

Processing: Classical, Modern and Particle Filtering Methods (Adaptive and Cognitive Dynamic Systems: Signal Processing, Learning, Communications and Control) Of Space and Mind: Cognitive Mappings of Contemporary Chicano/a Fiction (Cognitive Approaches to Literature and Culture) Learn: Cognitive Psychology - How to Learn, Any Skill or Subject in 21 Days! (Learn, Learning Disability, Learning Games, Learning Techniques, Learning ... Learning, Cognitive Science, Study) Prolog Programming: Questions and Answers BODY LANGUAGE : Decoding Alpha Male Body Language, Instantly Attract Any Woman Without Saying a Single word. (Body Language 101, Alpha male, Attract woman, ... Seduce Women, Eye Contact, Body Language) Pure Pulp: WEIRD TALES 2: TWO COMPLETE ORIGINAL PULP MAGAZINES FROM THE 1930s - OVER 260 PAGES Pure Pulp: WEIRD TALES 3: TWO COMPLETE ORIGINAL PULP MAGAZINES FROM THE 1920s & 1930s - OVER 260 PAGES Red Smoothies: Over 80 Blender Recipes, weight loss naturally, green smoothies for weight loss,detox smoothie recipes, sugar detox,detox cleanse juice,detox ... - detox smoothie recipes Book 260) Recipes from my Portuguese Kitchen: 65 authentic recipes from Portugal, shown in over 260 photographs Programming in Prolog: Using the ISO Standard Artificial Intelligence: Search Methods in PROLOG Lists In PROLOG Weimar Institute's NEWSTART® Lifestyle Cookbook: More Than 260 Heart-Healthy Recipes Featuring Whole Plant Foods Cognitive Processing for Vision and Voice: Proceedings of the Fourth NEC Research Symposium Regular Expression Pocket Reference: Regular Expressions for Perl, Ruby, PHP, Python, C, Java and .NET (Pocket Reference (O'Reilly))