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Reinforcement Learning, second edition John Benjamins Publishing

The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage

of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as

an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

Namaqualand Walter de Gruyter

This volume is the first to provide an up-to-date and comprehensive history of phonology, spanning the history of phonological thought from Panini to the latest advances in computational modelling and learning. This in-depth exploration provides new perspectives on where phonology has been and sheds light on where it could go

next .

Natural Phonology John Wiley & Sons

The Routledge Language Family series is aimed at undergraduates and postgraduates of linguistics and language, and those with an interest in historical linguistics, linguistic anthropology and language development. According to a widely accepted hypothesis, the Khoesan languages represent the smallest of the four language phyla in Africa, geographically distributed mainly in Botswana and Namibia. Today, only 30 or so Khoesan languages may still exist, with about 300,000 native speakers. In other words, most Khoesan languages were already extinct before a sound scholarly interest

in them could begin to develop. Drawing together a distinguished group of international experts, with much of the material taken from data collected by the authors' own field work, this volume presents descriptive, typological, historical-comparative and sociolinguistic material on Khoesan. The Khoesan Languages contains eight sections: an introduction, an overview of genetic relationships, a typological survey and profile of Khoesan, four chapters covering core linguistic areas of Khoesan phonetics and phonology, tonology, morphology and syntax, and a final chapter tackling major issues in Khoesan sociolinguistics, as well as discussions of language contact.

Comprehensive and scholarly, yet also lucid in its coverage of a broad range of languages, dialects and sub-groups, this unprecedented and original work represents the current state of Khoesan linguistics.

The Syllable MIT Press (MA)

For many different reasons, speakers borrow words from other languages to fill gaps in their own lexical inventory. The past ten years have been characterized by a great interest among phonologists in the issue of how the nativization of loanwords occurs. The general feeling is that loanword nativization provides a direct window for observing how acoustic cues are categorized in terms of the distinctive features relevant to the L1

phonological system as well as for studying L1 phonological processes in action and thus to the true synchronic phonology of L1. The collection of essays presented in this volume provides an overview of the complex issues phonologists face when investigating this phenomenon and, more generally, the ways in which unfamiliar sounds and sound sequences are adapted to converge with the native language's sound pattern. This book is of interest to theoretical phonologists as well as to linguists interested in language contact phenomena."

Cumulated Index Medicus
Routledge

This book presents statistical models that have recently been developed within several research communities to access information contained in text collections. The problems

considered are linked to applications aiming at facilitating information access: - information extraction and retrieval; - text classification and clustering; - opinion mining; - comprehension aids (automatic summarization, machine translation, visualization). In order to give the reader as complete a description as possible, the focus is placed on the probability models used in the applications concerned, by highlighting the relationship between models and applications and by illustrating the behavior of each model on real collections. Textual Information Access is organized around four themes: informational retrieval and ranking models, classification and clustering (regression logistics, kernel methods, Markov fields, etc.), multilingualism and machine translation, and emerging applications such as information exploration.

Contents Part 1: Information Retrieval
1. Probabilistic Models for Information Retrieval, St é phane Clinchant and Eric Gaussier.
2. Learnable Ranking Models for Automatic Text

Summarization and Information Retrieval, Massih-R é za Amini, David Buffoni, Patrick Gallinari, Tuong Vinh Truong and Nicolas Usunier. Part 2: Classification and Clustering 3. Logistic Regression and Text Classification, Sujeevan Aseervatham, Eric Gaussier, Anestis Antoniadis, Michel Burlet and Yves Denneulin. 4. Kernel Methods for Textual Information Access, Jean-Michel Renders. 5. Topic-Based Generative Models for Text Information Access, Jean-C é dric Chappelier. 6. Conditional Random Fields for Information Extraction, Isabelle Tellier and Marc Tommasi. Part 3: Multilingualism 7. Statistical Methods for Machine Translation, Alexandre Allauzen and Fran ç ois Yvon. Part 4: Emerging Applications 8. Information Mining: Methods and Interfaces for Accessing Complex Information, Josiane Mothe, Kurt Englmeier and Fionn Murtagh. 9. Opinion Detection as a Topic Classification Problem, Juan-Manuel Torres-Moreno, Marc El-B è ze, Patrice Bellot and Fr é d eric B é chet. Phonological Domains Walter de Gruyter This volume consists of nine articles dealing with topics in distinctive feature theory in various typologically diverse languages, including Acehnese, Afrikaans, Basque, Dutch, Finnish, French, German, Hungarian, Japanese, Korean, Navajo, Portuguese, Tahltan, Terena, Tswana, Tuvan, and Zoque. The subjects dealt with in the book include feature geometry, underspecification (in rule-based and in Optimality Theoretic treatments) and the phonetic implementation of phonological features. Other topics include laryngeal features (e.g. [voice], [spread glottis], [nasal]), and place features for consonants and vowels. The volume will be of interest to all linguists and advanced students of linguistics working on feature theory and/or the phonetics-phonology interface. The Structure of Phonological Representations. Part 1 "A lucid and readable

introduction to the contemporary study of language—what linguistics is and how linguists go about their business."

The Principles of the International Phonetic Association MIT Press
Toponym Resolution in Text Universal-Publishers

Walter de Gruyter
Originally presented as author's thesis: Doctor of Philosophy, University of Edinburgh, 2007.

Distinctive Feature Theory
Walter de Gruyter

This book presents a description of the phonology and morphology of the nominal class system in Fula, a dialect which displays 21 nominal classes. These are identified by suffixes, which can attach to nominal, verbal and adjectival stems. The main objective of this work is to show, through a lexical analysis, that there are only two monomorphemic marker variants, and that the

distribution of these variants is predictable.

The Language Lottery
Walter de Gruyter

This book takes contrast, an issue that has been central to phonological theory since Saussure, as its central theme, making explicit its importance to phonological theory, perception, and acquisition. The volume brings together a number of different contemporary approaches to the theory of contrast, including chapters set within more abstract representation-based theories, as well as chapters that focus on functional phonetic theories and perceptual constraints. This book will be of interest to phonologists, phoneticians, psycholinguists, researchers in first and second language acquisition, and cognitive scientists interested in

current thinking on this exciting topic.

A Khoekhoegowab dictionary with an English-Khoekhoegowab index
Toponym Resolution in Text

TRENDS IN LINGUISTICS is a series of books that open new perspectives in our understanding of language. The series publishes state-of-the-art work on core areas of linguistics across theoretical frameworks as well as studies that provide new insights by building bridges to neighbouring fields such as neuroscience and cognitive science. TRENDS IN LINGUISTICS considers itself a forum for cutting-edge research based on solid empirical data on language in its various manifestations, including sign languages. It regards linguistic variation in its synchronic and diachronic dimensions as well as in its social contexts as important sources of insight for a better understanding of the design of linguistic systems and the ecology and evolution of language.

TRENDS IN LINGUISTICS

publishes monographs and outstanding dissertations as well as edited volumes, which provide the opportunity to address controversial topics from different empirical and theoretical viewpoints. High quality standards are ensured through anonymous reviewing.

Lexical Phonology and Morphology (RLE Linguistics A: General Linguistics) Routledge
Namaqualand is justifiably famous for the floral wonderland it becomes in spring, when seas of orange, yellow and white flowers carpet the land. In this region one finds not only carpets of annuals, but also a wide variety of geophytes (bulbs), dwarf shrubs and succulents - some 3,800 species, of which 28% are endemic. This book introduces nearly 600 species, highlighting those most commonly found, most conspicuous, spectacular or interesting, as well as endemics. An introduction touches on the species selection for the book, the climatic and topographical subregions within Namaqualand, plant names and uses and

conservation issues. The concise species descriptions also give seed and fruit details, uses, local growing conditions and flowering times, and are accompanied by beautiful full-color photographs. An illustrated glossary and comprehensive index round off the book. This is a must-have guide for visitors to Namaqualand, or for anyone interested in the wild flowers of southern Africa.

Loan Phonology Universal-Publishers

This book puts together recent theoretical developments in prosodic phonology by leading specialists and presents language particular investigations on the morphosyntax-phonology interface by expert linguists working on diverse languages such as German, Greek, Icelandic, Italian, Japanese, Spanish, and Turkish.

The Sound Pattern of English

The architecture of the human language faculty has been one of the main foci of the linguistic research of the last half century. This branch of linguistics, broadly known as Generative Grammar, is concerned with the formulation of explanatory formal accounts of linguistic phenomena with the ulterior goal of gaining insight into the properties of the 'language organ'. The series comprises high quality monographs and collected volumes that address such issues. The topics in this series range from phonology to semantics, from syntax to information structure, from mathematical linguistics to studies of the lexicon.

The Khoesan Languages
The theoretical issues raised in *The Sound Pattern of English* continue to be critical to current phonology, and in many instances the solutions

proposed by Chomsky and Halle have yet to be improved upon. Since this classic work in phonology was published in 1968, there has been no other book that gives as broad a view of the subject, combining generally applicable theoretical contributions with analysis of the details of a single language. The theoretical issues raised in *The Sound Pattern of English* continue to be critical to current phonology, and in many instances the solutions proposed by Chomsky and Halle have yet to be improved upon.

[Textual Information Access](#)

[Contrast in Phonology](#)

The Oxford History of
Phonology

Bushman dictionary