# Head-Driven Phrase Structure Grammar

The handbook

Edited by

Stefan Müller

Jean-Pierre Koenig Aich

**Empirically Oriented Theoretical** Morphology and Syntax



#### Empirically Oriented Theoretical Morphology and Syntax

Chief Editor: Stefan Müller

Consulting Editors: Berthold Crysmann, Laura Kallmeyer

#### In this series:

- 1. Lichte, Timm. Syntax und Valenz: Zur Modellierung kohärenter und elliptischer Strukturen mit Baumadjunktionsgrammatiken
- 2. Bîlbîie, Gabriela. Grammaire des constructions elliptiques: Une étude comparative des phrases sans verbe en roumain et en français
- 3. Bowern, Claire, Laurence Horn & Raffaella Zanuttini (eds.). On looking into words (and beyond): Structures, Relations, Analyses
- 4. Bonami, Olivier, Gilles Boyé, Georgette Dal, Hélène Giraudo & Fiammetta Namer. The lexeme in descriptive and theoretical morphology.
- 5. Guzmán Naranjo, Matías. Analogical classification in formal grammar.
- 6. Julia Zinova. Russian Verbal Prefixation: A Frame Semantic Analysis
- 7. Müller, Stefan, Anne Abeillé, Robert D. Borsley & Jean-Pierre Koenig. Head-Driven Phrase Structure Grammar.

ISSN: 2366-3529

# Head-Driven Phrase Structure Grammar

The handbook

Edited by

Stefan Müller

Anne Abeillé

Robert D. Borsley

Jean-Pierre Koenig



Müller, Stefan, Anne Abeillé, Robert D. Borsley & Jean-Pierre Koenig (ed.). 2020. *Head-Driven Phrase Structure Grammar: The handbook* (Empirically Oriented Theoretical Morphology and Syntax ). Berlin: Language Science Press.

This title can be downloaded at:

http://langsci-press.org/catalog/book/000

© 2020, the authors

Published under the Creative Commons Attribution 4.0 Licence (CC BY 4.0):

http://creativecommons.org/licenses/by/4.0/

ISBN: no digital ISBN

no print ISBNs! ISSN: 2366-3529

no DOI

ID not assigned!

Cover and concept of design: Ulrike Harbort Typesetting: Stefan Müller, Elizabeth Pankratz

Proofreading: Elizabeth Pankratz

Fonts: Linux Libertine, Libertinus Math, Arimo, DejaVu Sans Mono

Typesetting software: X¬IM¬X

Language Science Press Unter den Linden 6 10099 Berlin, Germany langsci-press.org

Storage and cataloguing done by FU Berlin



### **Contents**

Pr	eface	v
Ac	cknowledgments	vii
Ι	Introduction	
1	Basic properties and elements Anne Abeillé & Bob Borsley	3
2	The evolution of HPSG Dan Flickinger, Carl Pollard & Tom Wasow	7
3	Formal Background Frank Richter	45
4	The nature and role of the lexicon in HPSG Anthony Davis & Jean-Pierre Koenig	81
5	<b>HPSG in understudied languages</b> Douglas L. Ball	129
II	Syntactic phenomena	
6	Agreement Stephen Wechsler	167
7	Case Adam Przepiórkowski	191
8	Nominal structures Frank Van Eynde	221

#### Contents

9	Argument structure and linking Stephen Wechsler, Jean-Pierre Koenig & Anthony Davis	261
10	Constituent order Stefan Müller	311
11	Clitics Berthold Crysmann & Gerald Penn	357
12	Complex predicates Danièle Godard & Pollet Samvelian	359
13	Control and Raising Anne Abeillé	419
14	Unbounded Dependencies Robert D. Borsley & Berthold Crysmann	453
15	Relative clauses in HPSG Doug Arnold & Danièle Godard	507
16	Island phenomena and related matters Rui Chaves	569
17	Coordination Anne Abeillé & Rui P. Chaves	623
18	Idioms Manfred Sailer	673
19	Negation Jong-Bok Kim	707
20	Ellipsis Joanna Nykiel & Jong-Bok Kim	739
21	Anaphoric Binding Stefan Müller & António Branco	767

III	Other levels of description	
22	Morphology Berthold Crysmann	823
23	Semantics Jean-Pierre Koenig & Frank Richter	871
24	Information structure Kordula De Kuthy	911
IV	Other areas of linguistics	
25	Processing Tom Wasow	949
26	Computational linguistics and grammar engineering Emily M. Bender & Guy Emerson	971
27	Grammar in dialogue Andy Lücking, Jonathan Ginzburg & Robin Cooper	1017
28	Sign languages Markus Steinbach & Anke Holler	10631
29	Gesture Andy Lücking	1065
V	The broader picture	
30	<b>HPSG and Minimalism</b> Robert D. Borsley & Stefan Müller	1117
31	HPSG and Categorial Grammar Yusuke Kubota	1191
32	HPSG and Lexical Functional Grammar Stephen Wechsler & Ash Asudeh	1251

#### Contents

33	<b>HPSG and Dependency Grammar</b> Dick Hudson	1253
34	<b>HPSG and Construction Grammar</b> Stefan Müller	1299
Ind	dexes	1353

## **Preface**

# Acknowledgments

# Part I Introduction