The chapters in this volume grew out of papers presented at the workshop “Nominalizations across Languages” that we organized at Stuttgart University, Germany, in December 2007. It was a lively and engaging workshop, with many good papers – in fact too many for a single volume. We decided to split the papers in two volumes, one focusing on the semantics of nominalizations (the current volume, IE 22), the other one focusing on the syntax of nominalizations (IE 23). The split reflects nicely the kinds of contributions we received, although we want to stress that there are, of course, many overlapping and unifying questions.

The current volume IE 22 explores the semantics of nominalizations from different theoretical points of view: formal and lexical semantics, cognitive-functional grammar, lexical-functional grammar, discourse representation theory. Data from a variety of languages are taken into account, including Hungarian, Italian, French, German and English. The papers discuss the semantics of distinct readings of nominalizations and meaning differences observed between competing affixes.

It was an enormous pleasure for both of us to prepare the volumes. We would like to thank our authors for their contributions, we have benefited enormously from reading their chapters. Many thanks also to our reviewers for their insightful and inspiring comments.

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Monika Rathert and Artemis Alexiadou
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Contributors

Artemis Alexiadou is Professor of Theoretical and English Linguistics at the Universität Stuttgart. Her research interests lie in theoretical and comparative syntax, with special focus on the interfaces between syntax and morphology and syntax and the lexicon. She is currently working on nominal structure and verbal alternations. She has published work in *Linguistic Inquiry, Natural Language and Linguistic Theory*, and *Studia Linguistica* among others.

Chris Barker is Professor of Linguistics at New York University. His interests include the semantics of nominals, especially of possessives. He currently works on applications of computational and logical approaches to natural language semantics, including continuations and substructural logics.

Regine Brandtner is researcher/PhD student in a project on the formation and interpretation of derived nominals, part of the collaborative research centre *Incremental specification in context* (SFB 732) at the University of Stuttgart. She is especially interested in the semantics-pragmatics interface, ambiguity and discourse structure.

Klaus von Heusinger is Professor of General and German Linguistics and Director of the Center for Linguistics and Cognition at the Universität Stuttgart. His research interests are the interface between semantics and syntax as well as the interface between pragmatics and syntax. His current research focuses on differential object marking and the encoding of definiteness and specificity in different languages. He has published work in *Journal of Semantics, Linguistics, Probus* and *Morphology*.

Liesbet Heyvaert is an assistant professor at the University of Leuven (Belgium). She has always had a keen interest in lexicogrammar in general and how it encodes meaning and has published mainly on nominalization and middle formation (in journals such as *Cognitive Linguistics, Linguistics, Functions of Language, Folia Linguistica* and *Word*, among others). She is also the author of *A cognitive-functional approach to nominalization in English*, published by Mouton de Gruyter in 2003 (*Cognitive Linguistics Research Series* 26).
Hans Kamp is research fellow in the Center for Linguistics and Cognition at the University of Stuttgart and visiting professor in Linguistics and Philosophy at the University of Texas at Austin. Scientific interests are primarily in the areas of semantics and pragmatics of natural language and the philosophy of language, logic and mind. Among current topics of interest are: propositional attitudes and their reports; tense and aspect; computation and justification of presuppositions; vagueness, ambiguity, underspecification and ways of reducing them; modes of definite and indefinite reference; linguistic and cognitive aspects of space; forms of context dependence and contextual information; sublexical syntax and semantics. Most of these topics are being pursued within frameworks based on Discourse Representation Theory.

Tibor Laczkó is Associate Professor of Linguistics at the University of Debrecen, Hungary. He works in the framework of Lexical-Functional Grammar. His main research areas include Hungarian and English syntactic, morphological and morphosyntactic phenomena with especial attention to noun phrases, nominalization, possessive constructions, participial and infinitival non-finite clauses, and bracketing paradoxes. His book, The Syntax of Hungarian Noun Phrases, was published by Peter Lang in 1995.

Fabienne Martin is a postdoctoral researcher at the Institut für Linguistik/Romanistik of the University of Stuttgart. Her research interests include lexical semantics, aspect and the semantics/pragmatics interface. She received her PhD in Linguistics in 2006 from the Université libre de Bruxelles, and is the author of Les Prédicats Statifs (De Boeck).

Chiara Melloni is Assistant Professor of General Linguistics at the University of Verona. Her research interests cover the fields of morphology and lexical semantics. Her scientific production, published in international journals and miscellanies, has focused on the formal and semantic properties of the morphologically complex lexicon and, specifically, on word formation phenomena such as nominalization and compounding.

Monika Rathert is Professor of German Linguistics and Director of the Center for Linguistics at Bergische Universität Wuppertal. Her research interests lie in morphosyntax, semantics, and the language of the law. Her books include Textures of Time (Akademie, 2004), and Sprache und Recht (Winter, 2006); she has edited Perfect Explorations (Mouton, 2003) together with Artemis Alexiadou and Arnim von Stechow, Formal Linguistics and Law (Mouton, 2009) together with Günther Grewendorf, and Quantification,

**Antje Roßdeutscher** is Senior Researcher at the Institute for Computational Linguistics at the University of Stuttgart. Her research interest lie in formal semantics and pragmatics from the point of view of interpretation and generation. Her work focuses on lexical semantics based on Discourse Representation Theory. She has published own and joint work in Linguistische Berichte, Theoretical Linguistics and Linguistics and Philosophy among others.

**Melanie Uth** is PhD student at the Department of Romance Linguistics at the University of Stuttgart. She is interested in derivational morphology, lexical semantics, language and cognition, language change and creole genesis. In her PhD thesis, she discusses the role of semantics in derivational morphology on the basis of a contrastive analysis of the French nominalization suffixes -ment and -age.
Introduction

Monika Rathert and Artemis Alexiadou

Deverbal nouns have been important and controversial in linguistic research, as they constitute an instance of structures showing categorically ambivalent behaviour, cf. Roeper (2005). Do deverbal nouns inherit the arguments of the underlying verbs? English data such as (1b) show that nominalizations of transitive verbs allow the inheritance of both the agent and the theme argument of the verb:

(1)  a. destroy (xAgent, yTheme)
    b. [the enemy’s]Agent destruction [of the city]Theme

But the agent is only realized in presence of the theme. If the theme is suppressed, enemy’s is no longer the agent but the theme of destruction:

(2)  a. *[the enemy’s]Agent destruction
    b. [the enemy’s]Theme destruction

In contrast to English, the prenominal position in nominalizations is more or less limited to proper names in today’s German:\footnote{Cf. Demske (2001); it is only after the end of the 17th century that the prenominal position was restricted to proper names like this.}

(3)  a. ?? des Feindes Zerstörung                      (equivalent to (2b))
       the enemy’s destruction
    b. Churchills Zerstörung
       Churchill’s destruction

While the nominalizers -tion in (2) and -ung in (3) lead to clearly nominal outputs, this is not the case for other affixes. As for the English -ing, a relatively verbal ACC-ing gerund contrasts with a nominal ING-of Gerund:

(4)  a. ACC-ing
     Belushi foolishly mixing drugs was the cause of...
    b. ING-of-Gerund
     Belushi’s foolish mixing of drugs was the cause of...
The ACC-ing gerund *mixing* in (4a) is relatively verbal as it assigns accusative case and is modified by an adverb (*foolishly*). ING-of gerund in (4b) is nominal as it allows only adjectival modification and as the object does not receive accusative (but genitive from *of*).

Within the framework of Distributed Morphology, this contrast receives a syntactic explanation. Similar to Abney (1987), Alexiadou (2001), Harley (2009) proposes that –*ing* dominated a VoiceP with the ACC-ing gerund, but only a VP with the ING-of gerund:

This analysis is not without problems, consider that adverbial modification is possible in both cases, contrary to the data in (4).

If a syntactic analysis would be the solution to deverbal nominalizations, well-known facts about restrictions on productivity and lexicalization phenomena would be left unaccounted for. The following nouns do not show the event or process reading one would expect with German -*ung*-noun (examples from Fleischer and Barz 1992):

(6)  Erfrischung, Lenkung, Kupplung, Innung, Losung, Schöpfung

As already mentioned, in English a relatively verbal ACC-ing gerund contrasts with a nominal ING-of gerund. But there is even more variation with -*ing* formations (examples from Quirk et al. 1985):

(7)  a. Brown’s painting of his daughter hangs in the museum
    b. The painting of Brown is as skillful as that of Gainsborough
    c. ING-of: Brown’s deft painting of his daughter is a delight to watch
    d. POSS-ing: Brown’s deftly painting his daughter is a delight to watch
    e. PRO-ing: Brown is well known for painting his daughter
    f. ACC-ing: I dislike Brown painting his daughter
    g. Brown is painting his daughter
With the POSS-ing in (7d), the agent (Brown’s) is expressed as a possessor. As for the PRO-ing in (7e), one assumes a proform as [painting his daughter]. Several tests show that ACC-ing and PRO-ing display a verbal/propositional semantics whereas the semantics POSS-ing is rather nominal. Horn (1975) has shown differences in agreement:

(8)  a. That Pat came and that Chris left bothers / ?bother me (S)
     b. Pat coming and Chris leaving bothers / ?bother me       ACC-ing
     c. Coming and leaving (so often) bothers / ?bother me       PRO-ing

(9)  a. Pat and Chris *bothers / bother me (NP)
     b. Pat’s coming and Chris’s leaving ?bothers / bother me       POSS-ing

Another problem is the non-constant meaning of nominalizing affixes, their so called sortal ambiguity. German -ung shows up to seven distinct types of meaning:

(10) -ung-Nomen according to Ehrich and Rapp (2000):

Not all readings are available for all deverbal –ung-nouns:

(11)  a. Lieferung: no resultant state *die Lieferung hat Bestand
     b. Vernichtung: no material object *die Vernichtung der Akten wird gelagert

Empirical work with corpora (e.g. Reinhard 2001) has tried to determine the relationship between the semantics of the verbal base and the sortal ambiguity of the deverbal noun. The picture is complicated by blocking phenomena; although semantically equivalent, -ung-nouns and nominalized infinitives show variation with respect to blocking:
(12) a. -ung-nouns and nominalized infinitives: equally acceptable
   *die Normalisierung – das Normalisieren
   the normalizing – the normalizing

b. preferences for the infinitive
   *die Streichelung – das Streicheln
   the petting

c. preferences for the –ung-noun
   eine Überwachung für die Urlaubszeit – ?? ein Überwachen für
die Urlaubszeit
   a monitoring during the vacations

d. equally bad
   *die Herumliegung des Mülls – *das Herumliegen des Mülls
   the lying around of garbage

The reasons for the varying grammaticality are not completely clear. They
are currently under examination by Kamp and Rossdeutscher and Alexiadou
and Schäfer within the context of the SFB 732 in Stuttgart. Is the deviance
of (12c) due to the fact that nominalized infinitives are closer to verbs than
-ung-nouns in that their accusative object may not be omitted? The deviant
infinitive in (12d) might be due to a restriction on animacy limited to stative
verbs, cf. the grammatical das Rauschen der Wälder Jacobs (2002).

The papers in this volume address these issues and introduce further and
finer distinctions in the semantics of nominalization. Let us briefly summa-
rize their main contributions.

Barker is concerned with the question whether nominals provide criteria
of identity. He claims that there is no need for positing lexical criteria of
identity, and so nominals provide only criteria of application. The impres-
sion that some nominals have non-trivial criteria of identity is due to the
fact that in certain limited pragmatic situations, nominals can shift their
meaning from a set of individuals (people) to a set of stages (passengers).
Because some nominals are episodically linked to a set of events, they are
especially likely to undergo this meaning shift, but under the right circu-
stances, other nominals can shift. Circumstances that promote per-event
shifts include situations in which tracking individuals becomes difficult:
large numbers of individuals, long periods of time between observations, or
salience of a nominal's qualifying events. Ultimately, then, the granularity
of individuation depends on spatial, temporal, and causal contiguity, in
combination with the pragmatic needs of the discourse, and not on lexical
criteria of identity.
Brandtner and Heusinger’s discussion of predicate transfer is devoted to a similar kind of pragmatically-triggered meaning shift. As mentioned before, nominalizations denote different sortal types, e.g. events, states etc., depending on a variety of parameters. Brandtner and Heusinger focus on the sortal readings of -ung-nominalizations in German that are triggered by the sortal restrictions of adjectival modifiers and the predicates that govern the nominalizations. They start with the observation that some nominalizations can occur in a context where they have different sortal readings imposed by the adjectival modifier on the one hand and by the predicate on the other. They provide a new analysis for these cases based on Nunberg’s notion of predicate transfer. They assume that the predicate extends its meaning and thereby imposes different selectional restrictions, rather than shifting the meaning of the nominalization.

Heyvaert offers a cognitive-functional perspective on deverbal nominalization in English. Rooted in the Cognitive Grammar framework as developed by Langacker while also adopting some of the fundamentals underlying Halliday’s systemic-functional analysis of language structure, the approach to nominalization that it proposes involves a usage-based description of the ‘symbolic’ status of various nominalization types, of the compositional relationships which they realize (in particular, of their component functions – which, it is argued, may be highly schematic categories realizable both in clauses and in nominal structures); and, thirdly, of the paradigmatic relationships which nominalizations enter into as ‘complex’ linguistic categories with non-nominalized noun phrases and with clausal structures. Among its most distinctive features is certainly the importance it attaches to the role played by functional categories that relate to the speech event or ‘ground’ (e.g. modality, tense, subject) and that have long been attributed exclusively to clausal structure.

Laczkó is concerned with a new account of possessors and event nominals in Hungarian within Lexical-Functional Grammar. The gist of the analysis is that a lexical conversion process creates a raising predicate from an ordinary noun and an equi predicate from a relational/deverbal noun, and the Poss morpheme functions as the PRED of their (XCOMP) propositional argument. This approach solves two classical problems: (i) modelling the “embedded” nature of the possessive relation and (ii) avoiding dual theta role assignment. Laczkó also discusses issues raised by possessive constructions with complex event nominal heads. A crucial feature of the new approach is that the argument structure that the deverbal noun inherits from the input verb is, as a rule, also augmented by the lexical predication template with a propositional argument. Consequently, the possessor in such construc-
tions is not a simple equivalent of the subject argument of the input verb, because it is also involved in an equi-type functional control relationship.

Martin investigates the semantics of eventive suffixes in French. Eventive deverbal nouns (EDNs) can be formed with at least three suffixes in French, namely -age, -ment and -ion. The goal of Marin’s paper is to explain the distribution of these three suffixes in contemporary French. The hypothesis she explores is that these suffixes have an abstract semantical value, which contributes to explain why verbs select different suffixes in the operation of nominalisation, given the additional premise that the meaning of the verbal stem and the one of the suffix must match. She also tackles the acceptability of neologisms. For this study, two kinds of empirical data have been investigated, namely existing EDNs listed in dictionaries (Le Petit Robert, Le Littré and Le Trésor de la Langue française) as well as existing EDNs which are present in corpora (e.g. on Internet) but not listed in dictionaries.

Melloni investigates polysemous action nominals which not only denote events but also refer to the results or effects of the events themselves. She is looking inside action nominals, hence paying attention to verbal semantics, rather than examining their behaviour in the syntactic context. The hypothesis she develops is that it is possible to predict the potential polysemy of action nominals by exploring the structural and, especially, the conceptual semantics of the base verb. The analysis of several verb classes allows her to capture the semantic features of the relevant argument or semantic participant of the base that semantically corresponds to the referential noun. In particular, she isolates the conceptual-semantic, thematic and aspectual features of the heterogeneous class of result/referential nouns. Melloni focuses on Italian data, but her analysis surely carries over to other Romance languages, and might be extended to Germanic and Slavic.

Roßdeutscher and Kamp are concerned with syntactic and semantic constraints on the formation and interpretation of German -ung-nouns. The central aim of this paper is to explain when -ung-nouns can be formed and what an -ung-noun can mean in case it can be formed. The general approach to these questions is to develop a theory of the internal, root based structure of verbs, building on the works from within Distributed Morphology. New is the way in which morpho-syntactic structures familiar from DM (or structures closely related to those) are given a formal semantics (specified by Roßdeutscher and Kamp in the form of semantic representations cast in a version of DRT).

Uth investigates the rivalry of French -ment and -age from a diachronic perspective. She shows that even in New French, the several differences
exhibited by the -ment and -age nominalizations should best be traced back
to a single underlying semantic difference, relating to the perspective from
which the nominalized forms refer to the event designated by the base verb.
She argues that -age nominals focus on the property of subject referents to
take part in the event designated by the base verb, whereas -ment nominal-
izes the property of Theme arguments to participate in the state resulting
from the base event. It follows that, in the case of -ment, the exact meaning
of the nominals will highly depend on the Aktionsart-related characteristics
of the base verb. The paper clearly supports the hypothesis that -ment and
-age may indeed be distinguished with respect to a single underlying seman-
tic difference.

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