

1. Record Nr.	UNISA996464550803316
Titolo	Language, logic, and computation : 13th International Tbilisi Symposium, Tbilisi 2019, Batumi, Georgia, September 16-20, 2019, revised selected papers // edited by Aybuke Ozgun, Yulia Zinova
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2022] ©2022
ISBN	3-030-98479-6
Descrizione fisica	1 online resource (367 pages)
Collana	Lecture Notes in Computer Science ; ; v.13206
Disciplina	006.35
Soggetti	Computational linguistics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Preface -- Organization -- Contents -- Language and Logic -- Final-Vowel Truncation in the Forms of Address in Modern Spoken Georgian -- 1 Introduction -- 2 Vocative Marking in Georgian -- 3 Truncation in Georgian, Its Diachrony and Synchronic Variation -- 3.1 No Vocative Truncation in Old or Middle Georgian -- 3.2 Modern Georgian Dialects and Vocative Truncation -- 3.3 Tbilisi Georgian Between 1950-1980 -- 4 Contact with Russian as a Possible Source -- 4.1 Vocative Truncation in Russian -- 4.2 Comparison of Vocative Truncation in Russian vs. Georgian -- 5 Discussion -- 5.1 Borrowing from Within or Outside of the Language Family? -- 5.2 Which Type of Borrowing Is It? -- 6 Conclusion -- References -- Tutorial: Sign Language Linguistics -- 1 Introduction -- 2 Phonology -- 3 The Use of Space -- 4 Syntax -- 5 Methodological Considerations -- 6 Conclusions -- References -- Gradability in MTT-Semantics -- 1 Introduction -- 2 Modern Type Theories: A Brief Introduction -- 2.1 Many-Sortedness, Common Nouns as Types and Subtyping -- 2.2 -types, -types, Indexed Types and Universes -- 3 Gradability in MTT-Semantics -- 3.1 Gradable Adjectives -- 3.2 Gradable Nouns -- 3.3 Multidimensional Adjectives -- 3.4 Multidimensional Nouns -- 4 Coq Implementation -- 5 Modelling Gradability with Subtype Universes -- 6 Conclusions and Future Work -- A Coq Code -- A.1 Gradable Adjectives -- A.2 Multidimensional Adjectives -- References --

Building Resources for Georgian Treebanking-Based NLP -- 1  
Introduction -- 2 Background -- 2.1 Treebanks -- 2.2 Parallel  
Treebanks and Alignment -- 3 Creating a Georgian Treebank -- 4  
Parallel Treebanking -- 4.1 Creating a Parallel Corpus -- 4.2 Word  
Alignment -- 4.3 Tree Alignment -- 4.4 Quantitative Evaluation -- 4.5  
Qualitative Evaluation -- 5 Discussion and Future Work -- References.  
Bridging the Gap Between Formal Semantics and Neurolinguistics: The  
Case of the N400 and the LPP -- 1 The N400 and the Late Posterior  
Positivity -- 2 The Functional Interpretation of the N400 and the LPP --  
2.1 Predictions and Situation Models -- 2.2 The Functional  
Interpretation of the N400 -- 2.3 The Functional Interpretation of the  
LPP -- 2.4 The Processing Model Underlying the N400 and the LPP -- 3  
The Formal Framework -- 3.1 Frame Theory -- 3.2 Adapting the  
Framework -- 3.3 Formal Definitions of the Update Operations -- 4  
Probability Distributions and Information Metrics -- 4.1 Probability  
Distributions on Frames -- 4.2 Information Metrics: Entropy and  
Entropy Reduction -- 4.3 The LPP and Exception Handling -- 5  
Comparison to Three Related Models -- 6 Closing Outlook --  
References -- Distributional Analysis of Polysemous Function Words --  
1 Introduction -- 2 Background: Distributional Analysis -- 3  
Phenomenon: The German Reflexive Pronoun sich -- 4 Data and  
Annotation -- 5 Experimental Setup -- 6 Exploratory Analysis -- 7  
Classification Experiments -- 7.1 Experiment 1: Classification with All  
Classes -- 7.2 Experiment 2: Classification Without Inherent Reflexives  
-- 7.3 Experiment 3: Prediction of Semantic Features -- 8 Discussion  
and Conclusion -- References -- It is not the Obvious Question that a  
Cleft Addresses -- 1 Introduction -- 2 Background -- 3 Analysis -- 4  
Applying the Model -- 5 Conclusion -- References -- Extensions in  
Compositional Semantics -- 1 A Puzzle About Extensions -- 2 Truth  
and Reference -- 2.1 Extension and Reference -- 2.2 Truth and  
Individual Reference -- 2.3 Truth and Divided Reference -- 3  
Determining Extensions -- 4 Extension and Bedeutung -- 4.1 The  
Arguments of extension -- 4.2 Occurrence and Bedeutung -- 5 Back to  
the Puzzle -- 6 Conclusion -- References -- Embedded Questions are  
Exhaustive Alright, but....  
1 Introduction -- 2 Background: Exhaustive Force, Particles, and Q-  
Adverbs -- 2.1 Different EXH-Force Under Knowand Surprise:SE vs. WE  
-- 2.2 The Interpretive Effect of SCHON...Aber:Implicature Blocking --  
2.3 The Meaning of Teilweise'Partially': Quantifying Over Pluralities -- 3  
Wissen'Know' + Wh:Data and Analysis -- 3.1 Novel Evidence on Know+  
Wh:IE is Semantic, but SE is Pragmatic! -- 3.2 An Event-Semantic  
Analysis of WE-Readings with Wissen'Know' -- 3.3 Pragmatics:  
Strengthening to SE -- 3.4 Conclusion on Wissen'know' + Wh -- 4  
Überraschen'Surprise' + Wh:Data and Analysis -- 4.1 Novel Evidence:  
WEnondist is Semantic, but WEdist is Pragmatic! -- 4.2 Towards a Non-  
propositional Analysis of Surprise+ Wh -- 5 Conclusions  
and Theoretical Implications -- References -- Logic and Computation  
-- Lyndon Interpolation for Modal -Calculus -- 1 Introduction -- 2  
Modal -Calculus -- 2.1 Syntactic Considerations -- 2.2 Semantics --  
2.3 Annotations and Sequents -- 3 Sequent Calculi -- 3.1 A Circular  
Proof System -- 4 Extracting the Interpolant -- 5 On the Form of the  
Interpolant -- 6 Discussion -- References -- Decidable and  
Undecidable Problems for First-Order Definability and Modal  
Definability -- 1 Introduction -- 2 Preliminaries -- 2.1 Frames -- 2.2  
Modal Language and Truth -- 2.3 First-Order Language and Truth --  
2.4 Modal Definability and First-Order Definability -- 3 Modal  
Definability: Decidable Cases -- 4 First-Order Definability: Trivial Cases  
-- 5 Chagrova's Theorem About Modal Definability -- 5.1 A New Proof

of Chagrova's Theorem About Modal Definability -- 5.2 Proofs of New Variants of Chagrova's Theorem About Modal Definability -- 6 Conclusion -- References -- Topological Evidence Logics: Multi-agent Setting -- 1 Introduction -- 2 Single-Agent Topological Evidence Models -- 2.1 The Logic of Topological Evidence Models -- 3 Going Multi-agent.

3.1 Topological-Partitional Models -- 3.2 Other Fragments -- 4 Generic Models for Two Agents -- 5 Distributed and Common Knowledge -- 5.1 Distributed Knowledge -- 5.2 Common Knowledge -- 6 Conclusions and Future Work -- References -- Incomplete Information and Justifications -- 1 Introduction -- 2 Preliminaries -- 3 The logic ILUPJ -- 3.1 Syntax -- 3.2 Axiomatization -- 3.3 Semantics -- 4 Soundness and Completeness -- 4.1 Completeness -- 5 ILUPJ as a Generalization of the Logic PPJ -- 6 Conclusion -- References -- Unranked Nominal Unification -- 1 Introduction -- 2 Unranked Nominal Language -- 3 Unification -- 4 Terminating Fragments -- 5 Discussion -- 6 Conclusion -- References -- Lattices of Intermediate Theories via Ruitenburg's Theorem -- 1 Introduction -- 2 Preliminaries -- 3 -logics -- 4 Algebraic Semantics -- 5 Dual Isomorphism -- 6 The Lattices of -logics -- 7 Conclusion -- A Proof of Lemma 7 -- References -- Matching and Generalization Modulo Proximity and Tolerance Relations -- 1 Introduction -- 2 Preliminaries -- 3 Matching and Anti-unification: Problem Statement -- 4 Matching -- 4.1 Computing Approximation Degrees for Matching -- 5 Anti-unification -- 5.1 Computing Approximation Degrees for Anti-unification -- 6 Conclusion -- References -- From Paradox to Truth -- 1 Introduction -- 2 Formalising Paradox -- 3 Paradoxes -- 4 Models of Truth -- 5 Conclusion -- References -- Author Index.

---