

Literatur

- Allport, Alan (1989): Visual Attention. – In: M. I. Posner, *Foundations of Cognitive Science*, 631–682.
- (1993): Attention and Control: Have We Been Asking the Wrong Questions? A Critical Review of Twenty-Five Years. – In: David E. Meyer and Sylvan Kornblum (eds.), *Attention and Performance XIV: Synergies in Experimental Psychology, Artificial Intelligence, and Cognitive Neuroscience*. – Cambridge, Mass.: The MIT Press, 183–218.
- Andersen, Richard A. (1987): Inferior parietal lobule function in spatial perception and visuomotor integration. – In: *Handbook of Psychology, The Visual System V*, Chapter 12.
- Asher, Nicholas und Sablayrolles, Pierre (1995): A Typology and Discourse Semantics for Motion Verbs and Spatial PPs in French. *Journal of Semantics* 12, 163–209.
- Aurnague, Michel (1995): Orientation in French Spatial Expressions: Formal Representations and Inferences. *Journal of Semantics* 12, 239–267.
- und Vieu, Laure (1993): A Three-Level Approach to the Semantics of Space. – In: C. Zelinsky-Wibbelt (ed.), *The semantics of prepositions: from mental processing to natural language processing*, – Berlin: Mouton de Gruyter.
- Baddeley, Alan (1992): Working Memory. *Science* 255, 556–559.
- Ballard, Dana H. (1987): Eye Movements and Visual Cognition. – In: Kak/Chen (eds.), *Spatial Reasoning and Multi-sensor fusion*, 188–200.
- Banks, William P., Clark, Herbert H. und Lucy, Peter (1975): The Locus of the Semantic Congruity Effect in Comparative Judgments. *Journal of Experimental Psychology: Human Perception and Performance* 104, 35–47.
- Baylis, Gordon C. und Driver, Jon (1993): Visual Attention and Objects: Evidence for Hierarchical Coding of Location. *Journal of Experimental Psychology: Human Perception and Performance* 19, 451–470.
- Becker, Angelika (1994): *Lokalisierungsausdrücke im Sprachvergleich*. – Tübingen: Max Niemeyer Verlag.
- Behrmann, Marlene und Tipper, Steven P. (1994): Object-Based Attentional Mechanisms: Evidence from Patients with Unilateral Neglect. – In: Carlo Umiltà, Morris Moscovitch (eds.), *Attention and Performance XV : Conscious and Nonconscious Information Processing* (Cambridge, MA:MIT Press), 351–375.
- Bialystok, Ellen und Olson, David R. (1987): Spatial Categories: The Perception and Conceptualization of Spatial Relations. – In: Stevan Harnad, *Categorical Perception*. Cambridge: Cambridge University Press, 511–531.
- Bierwisch, Manfred (1983): Semantische und konzeptuelle Repräsentationen lexikalischer Einheiten. – In: R. Ruzicka, W. Motsch, *Untersuchungen zur Semantik*. Berlin: Akademie-Verlag. *Studia Grammatica* 22, 61–99.
- (1987): Semantik der Graduierung. – In: Manfred Bierwisch und Ewald Lang (eds.), *Grammatische und konzeptuelle Aspekte von Dimensionsadjektiven*. Berlin: Akademie-Verlag. *Studia Grammatica* 26-27, 91–286.
- (1988): On the Grammar of Local Prepositions. – In: M. Bierwisch, W. Motsch, I. Zimmermann, *Syntax Semantik und Lexikon*. Berlin: Akademie-Verlag *Studia Grammatica* 29, 1–65.
- (1996): How Much Space Gets into Language? – In: Paul Bloom, Mary A. Peterson, Lynn Nadel and Merrill F. Garrett (eds.), *Language and Space*. Cambridge, Mass.: MIT Press, 31–76.
- und Lang, Ewald (eds.) (1987a): *Grammatische und konzeptuelle Aspekte von Dimensionsadjektiven*. – Berlin: Akademie-Verlag. *Studia Grammatica* 26-27.
- und Lang, Ewald (1987b): Etwas Länger - Viel Tiefer - Immer Weiter: Epilog zum Dimensionsadjektiveprojekt. – In: Manfred Bierwisch und Ewald Lang (eds.) (1987a), 649–699.

- Bisiach, Edoardo (1993): Mental Representation in Unilateral Neglect and Related Disorders: The Twentieth Bartlett Memorial Lecture. *The Quarterly Journal of Experimental Psychology* 46, 435–461.
- und Vallar, Giuseppe (1988): Hemineglect in Humans. – In: F. Boller, J. Grafman (eds.), *Handbook of Neuropsychology*, 195–223.
- Bloom, Paul, Peterson, Mary A., Nadel, Lynn und Garrett, Merrill F. (eds.) (1996): *Language and Space*. – Cambridge, Mass.: MIT Press.
- Boggess, Lois C. (1978): *Computational Interpretation of English Spatial Prepositions*. Ph. D. Thesis, Univ. of Urbana, Illinois.
- Boucart, Muriel und Humphreys, Glyn W. (1992): Global Shape cannot be Attended Without Object Identification. *Journal of Experimental Psychology: Human Perception and Performance* 18, 785–806.
- Humphreys, Glyn W. und Lorenceau, Jean (1995): Automatic Access to Object Identity: Attention to Global Information, Not to Particular Physical Dimensions, Is Important. *Journal of Experimental Psychology* 21, 584–601.
- Bowerman, Melissa (1996): Learning How to Structure Space for Language: A Crosslinguistic Perspective. – In: Paul Bloom, Mary A. Peterson, Lynn Nadel and Merrill F. Garrett (eds.), *Language and Space*. Cambridge, Mass.: MIT Press, 385–436.
- Brennan, Susan E. (1995): Centering Attention in Discourse. *Language and Cognitive Processes* 10, 137–167.
- Briand, Kevin A. (1994): Selective Attention to Global and Local Structure of Objects: Alternative Measures of Nontarget Processing. *Perception & Psychophysics* 55, 562–574.
- und Klein, R. M. (1987): Is Posner's "beam" the same as Treisman's "glue"? On the relation between visual orienting and feature integration theory. *Journal of Experimental Psychology: Human Perception and Performance* 13, 228–241.
- Bridgeman, Bruce (1993): Spatial and cognitive vision differentiate at low levels, but not in language. *Comment on Landau/Jackendoff* 16, 240.
- ,Heijden, A. H. C. Van der und Velichkovsky, Boris M. (1994): A Theory of Visual Stability Across Saccadic Eye Movements. *Behavioral and Brain Sciences* 17, 247–292.
- Brugman, Claudia M. (1988): *The story of over: Polysemy, semantics, and the structure of the lexicon*. – New York: Garland.
- Bryant, David J. (1992): A Spatial Representation System in Humans. *PSYCOLOQUY* 3, 1.
- ,Tversky, Barbara und Franklin, Nancy (1992): Internal and External Spatial Frameworks for Representing Described Scenes. *Journal of Memory and Language* 31, 74–98.
- Bundesden, Claus (1990): A Theory of Visual Attention. *Psychological Review* 97, 523–547.
- Buschbeck-Wolf, Bianka (1995): *Konzeptuelle Interpretation und interlinguabasierte Übersetzung räumlicher Präpositionen*. Dissertation. Universität Stuttgart. Auch veröffentlicht als: Working Papers of the Institute for Logic and Linguistics, No. 15.
- Carlson-Radvansky, Laura A. und Irwin, David E. (1993): Frames of Reference in vision and Language: Where is above? *Cognition* 46, 223–244.
- ,Laura A. und Irwin, David E. (1994): Reference Frame Activation During Spatial Term Assignment. *Journal of Memory and Language* 33, 646–671.
- Carstensen, Kai-Uwe (1994): Die Rolle Fokussierter Aufmerksamkeit in Raumrepräsentation und Räumlicher Semantik: Aspekte einer Mentalen Interlingua. – In: Peter Bosch & Christopher Habel, eds., *Kognitive Grundlagen für interlinguabasierte Übersetzung*, Papiere der Arbeitsgruppe 6 der DGfS-Jahrestagung 1994. IBM Working Paper 3.
- (1995a): Semantic and Conceptual Aspects of Local Expressions: Critical Remarks on the 'State of the Art'. – In: Manfred Bierwisch, Peter Bosch (Hrsg.), *Semantic and Conceptual Knowledge*, Workshop-Proceedings of the SFB 340 „Sprachtheoretische Grundlagen für die Computerlinguistik“, Bericht Nr. 71, 117-126.
- (1995b): Rezension von Simone Pribbenow: Räumliche Konzepte in Wissens- und Sprachverarbeitung. *Kognitionswissenschaft* 4, 135–139.
- (1995c): Focused Spatial Attention and Spatial Semantics: The Case of to follow. *Proceedings of the TSM'95 (Time, Space, and Movement)*. Toulouse. B 15-27.

- (1998): A Cognitive Science Approach to the Semantics of Spatial Gradation. In: Petra Ludewig, Bart Geurts (Hrsg.), *Lexikalische Semantik aus kognitiver Sicht – Perspektiven im Spannungsfeld linguistischer und psychologischer Modellierungen*, Tübinger Beiträge zur Linguistik (TBL 439), Gunter Narr Verlag (Tübingen), 73-94.
- (2000): Räumliche Mikroperpektivierung und die Semantik lokaler Präpositionen. In: Christopher Habel, Christiane v. Stutterheim (Hrsg.), *Räumliche Konzepte und sprachliche Strukturen*, Linguistische Arbeiten, Band 417, Max Niemeyer Verlag (Tübingen).
- Castiello, Umberto und Umiltà, Carlo (1992): Splitting Focal Attention. *Journal of Experimental Psychology: Human Perception and Performance* 18, 837–848.
- ,Scarpa, Marina und Bennett, Keree (1995): A Brain-Damaged Patient with an Unusual Perceptuomotor Deficit. *Nature* 374, 4.
- Cave, Kyle R. und Kosslyn, Stephen M. (1989): Varieties of size-specific visual selection. *Journal of Experimental Psychology* 118, 148–164.
- Chastain, Garvin (1991): Time Course of Location Changes of Visual Attention. *Bulletin of the Psychonomic Society* 29, 425–428.
- Chun, Marvin M. (1997): Types and Tokens in Visual Processing: A Double Dissociation Between the Attentional Blink and Repetition Blindness. *Journal of Experimental Psychology: Human Perception and Performance* 23, 738–755.
- Cienki, Alan (1989): *Spatial Cognition and the Semantics of Prepositions in English, Polish, and Russian*. Slavistische Beiträge, Bd. 237. – München: Verlag Otto Sagner.
- Clark, Herbert H. (1973): Space, Time, Semantics, and the Child. – In: T. E. Moore (ed.), *Cognitive Development and the Acquisition of Language* (New York: Academic Press), 27–63.
- ,Carpenter, Patricia A. und Just, Marcel Adam (1973): On the Meeting of Semantics and Perception. – In: William G. Chase (ed.), *Visual Information Processing*. Academic Press, 311–381.
- Cohen, Asher und Ivry, Richard (1989): Illusory Conjunctions Inside and Outside the Focus of Attention. *Journal of Experimental Psychology: Human Perception and Performance* 15, 650–663.
- Coventry, Kenny R., Carmichael, Richard und Garrod, Simon C. (1994): Spatial Prepositions, Object-Specific Function, and Task Requirements. *Journal of Semantics* 11, 289–309.
- Cowan, Nelson (1988): Evolving Conceptions of Memory Storage, Selective Attention, and Their Mutual Constraints Within the Human Information-Processing System. *Psychological Bulletin* 104, 163–191.
- (1993): Activation, Attention, and Short-term Memory. *Memory & Cognition* 21, 162–167.
- Delis, Dean C. und Bihle, Amy M. (1989): Fractionation of Spatial Cognition following Focal and Diffuse Brain Damage. – In: A. Ardila, F. Ostrosky (eds), *Brain Organization of Language and Cognitive Processes*. New York: Plenum, 17–35.
- Denofsky, M. E. (1976): *How near is near? A near specialist*. MIT, AI Memo No. 344.
- Duncan, John (1984): Selective Attention and the Organization of Visual Information. *Journal of Experimental Psychology* 113, 501–517.
- (1993): Similarity between concurrent visual discriminations: Dimensions and objects. *Perception & Psychophysics* 54, 425–430.
- und Humphreys, Glyn W. (1992): Beyond the Search Surface: Visual Search and Attentional Engagement. *Journal of Experimental Psychology: Human Perception and Performance* 18, 578–588.
- Easton, Randolph D. und Sholl, M. Jeanne (1993): Object-Array Structure, Frames of Reference, and Retrieval of Spatial Knowledge. *Journal of Experimental Psychology: Learning* 21, 483–500.
- Egley, Robert, Driver, Jon und Rafal, Robert D. (1994): Shifting Visual Attention Between Objects and Locations: Evidence from Normal and Parietal Lesion Subjects. *Journal of Experimental Psychology* 123, 161–177.
- Ellen, Paul und Thinus-Blanc, Catherine (eds.) (1987): *Cognitive Processes and Spatial Orientation in Animal and Man Vol II Neurophysiology and Developmental Aspects*. – Dordrecht et al.: Martinus Nijhoff Publishers.
- Engelkamp, Johannes (1991): *Das menschliche Gedächtnis*. – Göttingen: Hogrefe. 2. Aufl.

- Eriksen, C. W. und James, James D. St. (1986): Visual Attention within and around the Field of Focal Attention: A Zoom Lens Model. *Perception & Psychophysics* 40, 225–240.
- und Yeh, Yei-Yu (1985): Allocation of Attention in the Visual Field. *Journal of Experimental Psychology: Human Perception and Performance* 11, 583–597.
- Eschenbach, Carola (1995): *Zählangaben - Maßangaben*. – Wiesbaden: Deutscher Universitätsverlag.
- und Kulik, Lars (1997): An Axiomatic Approach to the Spatial Relations Underlying Left-Right and in Front of-Behind. – In: Gerhard Brewka, Christopher Habel, Bernhard Nebel (Eds.), *KI-97: Advances in Artificial Intelligence* (Berlin, Heidelberg, New York, Tokyo: Springer), 207–218.
- Farah, Martha J. (1985): Psychophysical Evidence for a shared representational medium for visual images and percepts. *Journal of Experimental Psychology: General* 114, 91–103.
- (1990): *Visual Agnosia*. – Cambridge, Mass.: MIT Press.
- ,Brunn, J. L., Wallace, M. A. und Carpenter, P. A. (1990): Frames of reference for allocating attention to space: Evidence from the Neglect syndrome. *Neuropsychologica* 28, 335–347.
- Feldman, Jerome A. (1985): Four frames suffice: A provisional model of space and vision. *Behavioral and Brain Sciences* 8, 265–289.
- Felix, Sascha, Kanngießer, Siegfried und Rickheit, Gerd (eds.) (1990a): *Sprache und Wissen*. – Opladen: Westdeutscher Verlag.
- ,Kanngießer, Siegfried und Rickheit, Gerd (1990b): Perspektiven der Kognitiven Linguistik. – In: Sascha Felix, Siegfried Kanngießer, und Gerd Rickheit (eds.) (1990a), 5–36.
- Finke, R. A. (1989): *Principles of Mental Imagery*. – Cambridge, Mass.: MIT Press.
- und Pinker, S. (1983): Directional Scanning of Remembered Visual Patterns. *Journal of Experimental Psychology: Learning* 9, 398–410.
- Fox, Elaine (1995): Negative Priming from Ignored Distractors in Visual Selection: A Review. *Psychonomic Bulletin & Review* 2, 145–173.
- Franklin, Nancy und Tversky, Barbara (1990): Searching Imagined Environments. *Journal of Experimental Psychology* 119, 63–76.
- Freksa, Christian (1992): Temporal reasoning based on semi-intervals. *Artificial Intelligence* 54, 199–227.
- und Habel, Christopher (1990b): Warum interessiert sich die Kognitionsforschung für die Darstellung räumlichen Wissens? – In: Christian Freksa und Christopher Habel (eds.) (1990a), 1–15.
- und Habel, Christopher (eds.) (1990a): *Repräsentation und Verarbeitung räumlichen Wissens*. – Berlin, Heidelberg, New York, Tokyo: Springer.
- Friederici, A. D. und Levelt, Willem J. M. (1990): Spatial reference in weightlessness: Perceptual factors and mental representations. *Perception & Psychophysics* 47, 253–266.
- Gardner, Howard (1992): *Dem Denken auf der Spur*. – Stuttgart: Klett Cotta.
- Garnham, Alan (1989): A unified theory of the meaning of some spatial relational terms. *Cognition* 31, 45–60.
- Garrod, Simon C. und Sanford, Anthony J. (1987): Discourse Models as Interfaces Between Language and the Spatial World. *Journal of Semantics* 6, 147–160.
- Gerstl, Peter und Pribbenow, Simone (1995): Midwinters, end games, and body parts: A classification of part-whole relations. *International journal of human - computer studies - ISSN 10715819*, 5–6.
- Gibson, Bradley S. und Egeth, Howard (1994): Inhibition of return to object-based and environment-based locations. *Perception & Psychophysics* 55, 323–339.
- Glasgow, Janice und Papadias, Dimitri (1992): Computational Imagery. *Cognitive Science* 16, 355–394.
- Glenberg, Arthur M. und Langston, William E. (1992): Comprehension of Illustrated Text: Pictures help to Build Mental Models. *Journal of Memory and Language* 31, 129–151.
- ,Meyer, Marion und Lindem, Karen (1987): Mental Models contribute to Foregrounding during Text Comprehension. *Journal of Memory and Language* 26, 69–83.

- Goldberg, Michael E. (1982): Moving and Attending in Visual Space: Single-Cell Mechanisms in the Monkey. – In: Michael Potegal (ed.), *Spatial Abilities: Development and Physiological Foundations*. New York et al.: Academic Press, 277–300.
- Groner, Rudolf (1988): Eye Movements, Attention and Visual Information Processing: Some Experimental Results and Methodological Considerations. – In: G. Lüer, U. Lass, J. Shallo-Hoffmann (eds.), *Eye movement research: physiological and psychological aspects* (Toronto: Hogrefe), 295–319.
- Grosz, Barbara und Sidner, Candace L. (1986): Attention, Intentions, and the Structure of Discourse. *Computational Linguistics* 12, 175–204.
- Guariglia, C., Padovani, A., Pantano, P. und Pizzamiglio, L. (1993): Unilateral Neglect Restricted to Visual Imagery. *Nature* 364, 7.
- Habel, Christopher (1988): *Cognitive Linguistics: The Processing of Spatial Concepts*. LILOG - Report 45. – Stuttgart: IBM Deutschland GmbH.
- (1989a): zwischen-Bericht. – In: Christopher Habel, Michael Herweg und Klaus Rehkämper (eds.), *Raumkonzepte in Verstehensprozessen*. Tübingen: Niemeyer, 37–69.
- (1989b): Propositional and depictorial representations of spatial knowledge: The case of path-concepts. Mitteilung Nr. 171. Fachbereich Informatik, Universität Hamburg.
- (1994): Discreteness, Finiteness, and the Structure of Topological Spaces. – In: Carola Eschenbach, Christopher Habel, Barry Smith (eds.), *Topological Foundations of Cognitive Science. Papers from the Workshop at the FISI-CS*, Buffalo, New York, July. Graduiertenkolleg Kognitionswissenschaft Hamburg. Report 37. 81-90, 9–10.
- und Eschenbach, Carola (1995): Abstrakte Räumlichkeit in der Kognition. *Kognitionswissenschaft* 4, 171–176.
- und Pribbenow, Simone (1988): *Gebietskonstituierende Prozesse*. LILOG-Report 18. IBM Stuttgart.
- ,Herweg, Michael und Rehkämper, Klaus (eds.) (1989): *Raumkonzepte in Verstehensprozessen*. – Tübingen: Niemeyer.
- Haber, Ralph Norman, Haber, Lyn R., Levin, Charles A. und Hollyfield, Rebecca (1993): Properties of Spatial Representations: Data from Sighted and Blind Subjects. *Perception & Psychophysics* 54, 1–13.
- Harnad, Stevan (1990): The Symbol Grounding Problem. *Physica D* 42, 1–3.
- Hayes, Patrick J. (1978): *The Naïve Physics Manifesto*. – In: D. Mitchie (ed.), *Expert Systems in the Micro-Electronic Age* (Edinburgh University Press), 242-270.
- Hays, Ellen (1990): On Defining Motion Verbs and Spatial Prepositions. – In: Christian Freksa und Christopher Habel (eds.), *Repräsentation und Verarbeitung räumlichen Wissens*. Berlin, Heidelberg, New York, Tokyo: Springer, 192–206.
- Hayward, William G. und Tarr, Michael J. (1995): Spatial Language and Spatial Representation. *Cognition* 55, 39–84.
- Hemforth, B., Konieczny, L., Scheepers, Ch. und Strube, G. (1992): SOUL-Processing: Semantikorientierte Prinzipien menschlicher Sprachverarbeitung. – In: G. Görz (Hrsg.), *KONVENS 92 1. Conference "Processing of Natural Language"* (Berlin, Heidelberg, New York, Tokyo: Springer), 198–208.
- Henderson, John M. (1994): Two Representational Systems in Dynamic Visual Identification. *Journal of Experimental Psychology* 123, 410–426.
- und Anes, Michael D. (1994): Roles of Object-File Review and Type Priming in Visual Identification Within and Across Eye Fixations. *Journal of Experimental Psychology: Human Perception and Performance* 20, 826–839.
- Hernández, Daniel (1994): *Qualitative Representation of Spatial Knowledge*. Lecture Notes in Artificial Intelligence. – Berlin, Heidelberg, New York, Tokyo: Springer.
- Herrmann, Theo (1989): Vor, hinter, links und rechts: das 6-H Modell. Psycholinguistische Studien zum sprachlichen Lokalisieren. SFB 245, Bericht Nr. 15. Lehrstuhl Psychologie III, Universität Mannheim.
- und Grabowski, Joachim (1994): *Sprechen*. – Heidelberg et al.: Spektrum Verlag.

- Herskovits, Annette (1986): *Language and Spatial Cognition. An interdisciplinary study of the prepositions in English.* – Cambridge Univ. Press.
- Herweg, Michael (1989): Ansätze zu einer semantischen Beschreibung topologischer Präpositionen.
– In: Christopher Habel, Michael Herweg und Klaus Rehkämper (eds.), *Raumkonzepte in Verstehensprozessen.* Tübingen: Niemeyer, 99–127.
- (1991): *Some notes on an and bei.* Arbeitspapier der Schriftenreihe des Graduiertenkollegs „Kognitionswissenschaft“. Universität Hamburg.
- Hill, Clifford (1982): Up, Down, Front, Back, Left, Right. A Contrastive Study of Hausa and English.
– In: J. Weissenborn, W. Klein (eds.), *Here and there: Crosslinguistic studies on deixis and demonstration* (Amsterdam: Benjamins), 13–41.
- Hirtle, Stephen C. und Jonides, John (1985): Evidence of Hierarchies in Cognitive Maps. *Memory & Cognition* 13, 208–217.
- Hitch, Graham J., Brandimonte, Maria A. und Walker, Peter (1995): Two Types of Representation in Visual Memory: Evidence from the Effects of Stimulus Conditions on Image Combination. *Memory & Cognition* 23, 147–154.
- Hobbs, Jerry R. (1985): Ontological Promiscuity. – In: Proceedings of the ACL, 61–69.
- Humphreys, Glyn W. und Riddoch, M. Jane (1993): Interactions Between Object and Space Systems Revealed through Neuropsychology. – In: David E. Meyer and Sylvan Kornblum (eds.), *Attention and Performance XIV: Synergies in Experimental Psychology, Artificial Intelligence, and Cognitive Neuroscience.* Cambridge, Mass.: The MIT Press, 143–162.
- Romani, Cristina, Olson, Andrew, Riddoch, M. Jane und Duncan, John (1994): Non-Spatial Extinction Following Lesions of the Parietal Lobe in Humans. *Nature* 372, 1.
- Ioerger, Thomas R. (1994): The Manipulation of Images to Handle Indeterminacy in Spatial Reasoning. *Cognitive Science* 18, 551–593.
- Jackendoff, Ray (1983): *Semantics and Cognition.* – Cambridge, Mass.: MIT Press.
- Jacobs, Robert A. und Kosslyn, Stephen M. (1994): Encoding Shape and Spatial Relations: The Role of Receptive Field Size in Coordinating Complementary Representations. *Cognitive Science* 18, 361–386.
- Johnson-Laird, Philip N. (1983): *Mental Models.* – Cambridge: CUP.
- Johnston, William A. und Dark, Veronica J. (1986): Selective Attention. *Annual Review of Psychology* 37, 43–75.
- Kahneman, Daniel und Miller, Dale T. (1986): Norm Theory: Comparing Reality to its Alternatives. *Psychological Review* 93, 136–153.
- und Treisman, Anne (1992): The Reviewing of Object Files: Object-Specific Integration of Information. *Cognitive Psychology* 24, 175–219.
- Kaufmann, Ingrid (1989): Direktionale Präpositionen. – In: Christopher Habel, Michael Herweg und Klaus Rehkämper (eds.), *Raumkonzepte in Verstehensprozessen.* Tübingen: Niemeyer, 128–149.
- (1995): Positionsverben und Richtung. *Kognitionswissenschaft* 4, 154–165.
- Kimchi, Ruth (1992): Primacy of Wholistic Processing and Global/Local Paradigm: A Critical Review. *Psychological Bulletin* 112, 24–38.
- Kinsbourne, Marcel (1988): Integrated field theory of consciousness. – In: A. J. Marcel, E. Bisiach (eds.), *Consciousness in Contemporary Science* (Oxford: Oxford University Press), 239–256.
- Klein, Ewan (1990): Comparatives. – In: A.v.Stechow, D. Wunderlich, *Handbuch der Semantik*, 673–691.
- Klein, Wolfgang (1990): Überall und nirgendwo. Subjektive und objektive Momente in der Raumreferenz. *Zeitschrift für Literaturwissenschaft und Linguistik* 78, 9–42.
- (1991): Raumausdrücke. *Linguistische Berichte* 132, 77–114.
- (1993): Some notorious pitfalls in the analysis of spatial expressions. – In: Frank Beckmann, Gerhard Heyer (eds.), *Theorie und Praxis des Lexikons* (Berlin, New York: de Gruyter), 191–204.
- (1994): Keine Känguruhs zur Linken. – In: H.-J. Kornadt, J. Grabowski, R. Mangold-Allwinn (eds.), *Sprache und Kognition.* Heidelberg et al.: Spektrum Wiss. Verlag, 163–182.
- und Stutterheim, Christiane von (1987): Quaestio und referentielle Bewegung in Erzählungen. *Linguistische Berichte* 109, 163–183.

- Kopp, Lars (1994): *A Neural Network for Spatial Relations: Connecting Visual Scenes to Linguistic Descriptions*. Lund University Cognitive Studies No. 32.
- Kosslyn, Stephen M. (1978): Measuring the Visual Angle of the Mind's Eye. *Cognitive Psychology* 10, 356–389.
- (1980): *Image and Mind*. – Cambridge, Mass.: Harvard University Press.
- (1987): Seeing and Imagining in the Cerebral Hemispheres: A Computational Approach. *Psychological Review* 94, 148–175.
- (1994): *Image and Brain*. – Cambridge, Mass.: MIT Press.
- Kramer, Arthur F. und Jacobson, Andrew (1991): Perceptual Organization and Focused Attention: The Role of Objects and Proximity in Visual Processing. *Perception & Psychophysics* 50, 267–284.
- Kuipers, Benjamin J. (1982): The 'Map in the Head' Metaphor. *Environment and Behaviour* 14, 202–220.
- LaBerge, David und Brown, Vincent (1989): Theory of Attentional Operations in Shape Identification. *Psychological Review* 96, 101–124.
- Ladavas, Elisabetta, Pesce, Maria Del, Mangun, George R. und Gazzaniga, Michael S. (1994): Variations in Attentional Bias of the Disconnected Cerebral Hemispheres. *Cognitive Neuropsychology* 11, 57–74.
- Lakoff, George (1987): *Women, Fire, and Dangerous Things. What Categories Reveal about the Mind*. – Chicago: University of Chicago Press.
- und Johnson, Mark (1980): *Metaphors we live by*. – Chicago: Univ. of Chicago Press.
- Landau, Barbara und Jackendoff, Ray (1993): "What" and "Where" in spatial language and spatial cognition. *Behavioral and Brain Sciences* 16, 217–265.
- Lang, Ewald (1987): Semantik der Dimensionsauszeichnung räumlicher Objekte. – In: Manfred Bierwisch und Ewald Lang (eds.), *Grammatische und konzeptuelle Aspekte von Dimensionsadjektiven*. Berlin: Akademie-Verlag. *Studia Grammatica* 26-27, 287–458.
- und Carstensen, Kai-Uwe (1989): OSKAR - ein Prolog-Programm zur Modellierung der Struktur und Verarbeitung räumlichen Wissens. – In: *GWAI '89*. Berlin, Heidelberg, New York, Tokyo: Springer. 234–243.
- , Carstensen, Kai-Uwe und Simmons, Geoffrey (1991): *Modelling Spatial Knowledge on a Linguistic Basis*. Lecture Notes in Artificial Intelligence 481. – Berlin, Heidelberg, New York, Tokyo: Springer.
- Langacker, Ronald W. (1983): *Foundations of Cognitive Grammar II: Semantic Structure*. – L.A.U.D.T, Series A, Paper No. 100.
- Levelt, Willem J. M. (1986): Zur sprachlichen Abbildung des Raumes: Deiktische und intrinsische Perspektive. – In: H.-G. Bosshardt (ed.), *Perspektiven auf Sprache*. Berlin: De Gruyter, 186–211.
- (1989): *Speaking: From Intention to Articulation*. – Cambridge, Mass.: MIT Press.
- (1996): Perspective Taking and Ellipsis in Spatial Descriptions. – In: Paul Bloom, Mary A. Peterson, Lynn Nadel and Merrill F. Garrett (eds.), *Language and Space*. Cambridge, Mass.: MIT Press, 77–108.
- Levine, M. L., Jankovic, I. N. und Palij, M. (1982): Principles of Spatial Problem Solving. *Journal of Experimental Psychology* 111, 157–175.
- Levinson, Stephen C. (1996): Frames of Reference and Molyneux's Question: Crosslinguistic Evidence. – In: Paul Bloom, Mary A. Peterson, Lynn Nadel and Merrill F. Garrett (eds.), *Language and Space*. Cambridge, Mass.: MIT Press, 109–171.
- Li, Jie (1994): *Räumliche Relationen und Objektivwissen am Beispiel an und bei*. – Tübingen: Gunter Narr.
- Loftus, Geoffrey R. und Mackworth, Norman H. (1978): Cognitive Determinants of Fixation Location During Picture Viewing. *Journal of Experimental Psychology: Human Perception and Performance* 4, 565–572.
- Logan, Gordon D. (1994): Spatial attention and the apprehension of spatial relations. *Journal of Experimental Psychology: Human Perception and Performance* 20, 1015–1036.
- (1995): Linguistic and conceptual control of visual spatial attention. *Cognitive Psychology* 28, 103–174.

- (1996): The CODE Theory of Visual Attention: An Integration of Space-Based and Object-Based Attention. *Psychological Review* 103, 603–649.
- und Compton, Brian J. (1996): Distance and distraction effects in the apprehension of spatial relations. *Journal of Experimental Psychology: Human Perception and Performance* 22, 159–172.
- und Sadler, Daniel D. (1996): A Computational Analysis of the Apprehension of Spatial Relations. – In: Paul Bloom, Mary A. Peterson, Lynn Nadel and Merrill F. Garrett (eds.), *Language and Space*. Cambridge, Mass.: MIT Press, 493–529.
- Maki, Ruth H. (1981): Categorization and Distance Effects with Spatial Linear Orders. *Journal of Experimental Psychology: Human Learning and Memory* 7, 15–32.
- Mangun, G. R. und Hillyard, S. A. (1990): Allocation of Visual Attention to Spatial Locations: Tradeoff Functions for Event-Related Brain Potentials and Detection Performance. *Perception & Psychophysics* 47, 532–550.
- Mangun, George R., Hillyard, Steven A. und Luck, Steven J. (1993): Electrocortical Substrates of Visual Selective Attention. – In: David E. Meyer and Sylvan Kornblum (eds.), *Attention and Performance XIV: Synergies in Experimental Psychology, Artificial Intelligence, and Cognitive Neuroscience*. Cambridge, Mass.: The MIT Press, 219–244.
- Marshall, John C. und Halligan, Peter W. (1995): Seeing the Forest But Only Half of the Trees? *Nature* 373, 2.
- McKeown, Kathleen R. (1985): *Text Generation: Using Discourse Strategies and Focus Constraints to Generate Natural Language Text*. – Cambridge: Cambridge University Press.
- McNamara, Timothy P. (1986): Mental Representations of Spatial Relations. *Cognitive Psychology* 18, 87–121.
- Meteer, M. W. (1990): Abstract Linguistic Resources for Text Planning. – In: *Proceedings of the 5th International Workshop on Natural Language Generation*, 62–69.
- Meyer, David E. und Kornblum, Sylvan (eds.) (1993): *Attention and Performance XIV: Synergies in Experimental Psychology, Artificial Intelligence, and Cognitive Neuroscience*. – Cambridge, Mass.: The MIT Press.
- Miller, George A. und Johnson-Laird, Philip N. (1976): *Language and Perception*. – Cambridge, Mass.: Belknap Press.
- Moens, Marc und Steedman, Mark (1988): Temporal Ontology and Temporal Reference. *Computational Linguistics* 15, 28.
- Moran, Jeffrey und Desimone, Robert (1985): Selective Attention Gates Visual Attention in the Extrastriate Cortex. *Science* 229, 782–784.
- Morrow, Daniel G. und Clark, Herbert H. (1988): Interpreting Words in Spatial Descriptions. *Language and Cognitive Processes* 3, 275–291.
- Bower, Gordon H. und Greenspan, Steven L. (1989): Updating Situation Models during Narrative Comprehension. *Journal of Memory and Language* 28, 292–312.
- Greenspan, Steven L. und Bower, Gordon H. (1987): Accessibility and Situation Models in Narrative Comprehension. *Journal of Memory and Language* 26, 165–187.
- Mozer, Michael C., Sitton, Mark (1998): Computational Modeling of Spatial Attention. – In: Harold Pashler (ed.): *Attention*. 341–393. Hove, East Sussex: Psychology Press Ltd.
- Murray, Janice E. (1995): The role of attention in the shift from orientation-dependent to orientation-invariant identification of disoriented objects. *Memory & Cognition* 23, 49–58.
- Navon, David und Ehrlich, Baruch (1995): Illusory Conjunctions: Does Inattention Really Matter? *Cognitive Psychology* 29, 59–83.
- Neumann, Odmar (1990): Visual Attention and Action. – In: O. Neumann, W. Prinz (eds.), *Relationships Between Perception and Action*, 227–267.
- (1992): Theorien der Aufmerksamkeit: von Metaphern zu Mechanismen. *Psychologische Rundschau* 43, 83–101.
- Norton, D. und Stark, L. (1971): Scan paths in eye movements during pattern perception. *Science* 171, 308–311.
- Nüse, Ralf, Groeben, Norbert, Freitag, Burkhard und Schreier, Margrit (1991): *Über die Erfindungen des Radikalen Konstruktivismus*. – Weinheim: Deutscher Studien Verlag.

- Ohlshausen, Bruno A., Anderson, Charles H. und Essen, David C. van (1995): A Multiscale Dynamic Routing Circuit for Forming Size- and Position-Invariant Object Representations. *Journal of Computational Neuroscience* 2, 45–62.
- Olson, David R. und Bialystok, Ellen (1983): *Spatial Cognition*. – London: Lawrence Erlbaum Associates.
- Paillard, J. (1987): Cognitive versus Sensorimotor Encoding of Spatial Information. – In: Paul Ellen and Catherine Thinus-Blanc (eds.), *Cognitive Processes and Spatial Orientation in Animal and Man Vol II Neurophysiology and Developmental Aspects*. Dordrecht et al.: Martinus Nijhoff Publishers, 43–77.
- Paivio, Allan (1983): The Empirical Case for Dual Coding. – In: John C. Yuille (ed.), *Essays in Honor of Allan Paivio*, 307–332.
- Palmer, Stephen E. (1978): Fundamental Aspects of Cognitive Representation. – In: E. Rosch, B. Lloyd, *Categorization and Cognition*, 259–303.
- (1992): Common Region: A New Principle of Perceptual Grouping. *Cognitive Psychology* 24, 436–447.
- und Rock, Irvin (1994): Rethinking Perceptual Organization: The Role of Uniform Connectedness. *Psychonomic Bulletin & Review* 1, 29–55.
- Park, Jooyong und Kanwisher, Nancy (1994): Determinants of Repetition Blindness. *Journal of Experimental Psychology: Human Perception and Performance* 20, 500–519.
- und Kanwisher, Nancy (1994): Negative Priming for Spatial Locations: Identity Mismatching, Not Distractor Inhibition. *Journal of Experimental Psychology: Human Perception and Performance* 20, 613–623.
- Payne, Stephen J. (1993): Memory for Mental Models of Spatial Descriptions: An Episodic-Construction-Trace Hypothesis. *Memory & Cognition* 21, 591–603.
- Pederson, Eric (1993): Geographic and manipulable space in two Tamil linguistic systems. – In: A. Frank, I. Campari (eds.), *Spatial Information Theory* (Berlin, Heidelberg, New York, Tokyo: Springer), 294–311.
- Peterson, Mary A. und Gibson, Bradley S. (1991): Directing Spatial Attention Within an Object: Altering the Functional Equivalence of Shape Descriptions. *Journal of Experimental Psychology: Human Perception and Performance* 17, 170–182.
- Pinker, Steven (1984): Visual Cognition: An Introduction. *Cognition* 18, 1–63.
- Pollatsek, Alexander, Rayner, Keith und Henderson, John M. (1990): Role of Spatial Location in Integration of Pictorial Information Across Saccades. *Journal of Experimental Psychology: Human Perception and Performance* 16, 199–210.
- Posner, Michael I. (1980): Orienting of Attention. *Quarterly Journal of Experimental Psychology* 32, 3–25.
- und Raichle, Marcus E. (1994): *Images of Mind*. – New York: Scientific American Library.
- Potegal, Michael (ed.) (1982): *Spatial Abilities: Development and Physiological Foundations*. – New York et al.: Academic Press.
- Pribbenow, Simone (1993): *Räumliche Konzepte in Wissens- und Sprachverarbeitung*. – Wiesbaden: Deutscher Universitätsverlag.
- Pylyshyn, Zenon W. (1973): What the Mind's Eye tells the Mind's Brain: A Critique of Mental Imagery. *Psychological Bulletin* 80, 1–23.
- (1994): Some primitive mechanisms of spatial attention. *Cognition* 50, 363–384.
- Randell, David A., Cui, Zhan und Cohn, Anthony G. (1992): A Spatial Logic based on Regions and Connection. – In: *Proceedings 3rd International Conference on Knowledge Representation and Reasoning*, Morgan Kaufman, San Mateo, 165–176.
- Ratcliff, Graham (1982): Disturbances of Spatial Orientation Associated with Cerebral Lesions. – In: Michael Potegal (ed.), *Spatial Abilities: Development and Physiological Foundations*. New York et al.: Academic Press, M. Potegal (ed.), *Spatial Abilities: Development and Physiological Foundations* (Academic Press), 301–331.
- (1987): Spatial Cognition in Man: The Evidence from Cerebral Lesions. – In: Paul Ellen and Catherine Thinus-Blanc (eds.), *Cognitive Processes and Spatial Orientation in Animal and Man*

- Vol II Neurophysiology and Developmental Aspects*. Dordrecht et al.: Martinus Nijhoff Publishers, 78–90.
- Rauh, Gisa (ed.) (1991): *Approaches to Prepositions*. – Tübingen: Gunter Narr Verlag.
- Reeves, Adam und Sperling, George (1986): Attention Gating in Short-Term Visual Memory. *Psychological Review* 93, 180–206.
- Regier, Terry (1995): A Model of the Human Capacity for Categorizing Spatial Relations. *Cognitive Linguistics* 6, 63–88.
- Rinck, Mike und Bower, Gordon (1995): Anaphora resolution and the Focus of Attention in Situation Models. *Journal of Memory and Language* 34, 110–131.
- Rizzolatti, G. und Gallese, V. (1988): Mechanisms and Theories of Spatial Neglect. – In: F. Boller, J. Grafman (eds.), *Handbook of Neuropsychology*, Vol. 1, 223–246.
- Robertson, Lynn C. und Lamb, Marvin R. (1991): Neuropsychological Contributions to Theories of Part/Whole Organization. *Cognitive Psychology* 23, 299–330.
- C., Egly, Robert, Lamb, Marvin R. und Kerth, Linda (1993): Spatial Attention and Cuing to Global and Local Levels of Hierarchical Structure. *Journal of Experimental Psychology: Human Perception and Performance* 19, 471–487.
- Roth, Gerhard (1996): *Das Gehirn und seine Wirklichkeit*. – Frankfurt a. M.: Suhrkamp. 4. Aufl.
- Sadalla, E. K. und Staplin, L. J. (1980): An Information Storage Model for Distance Cognition. *Environment and Behaviour* 12, 183–193.
- ,Staplin, L. J. und Burroughs, W. J. (1979): Retrieval Processes in Distance Cognition. *Memory & Cognition* 7, 291–296.
- Sagi, Dov und Julesz, Bela (1985): "Where" and "What" in Vision. *Science* 228, 1217–119.
- Schriefers, Heribert Johannes (1985): *On semantic merkedness in language production and verification*. – Nijmegen: Stichting Studententpers.
- Sergent, Justine (1991): Judgments of Relative Position and Distance on Representations of Spatial Relations. *Journal of Experimental Psychology: Human Perception and Performance* 91, 762–780.
- Shulman, Gordon L. (1992): Attentional Modulation of Size Contrast. *The Quarterly Journal of Experimental Psychology* 45, 529–546.
- Sinha, Chris und Thorseng, Lis A. (1995): A coding system for spatial relational reference. *Cognitive Linguistics* 6, 3.
- Staab, S. und Hahn, U. (1997): 'Tall' , 'good' , 'high' — compared to what? *Proc. of the IJCAI-97*. 996–1001.
- Smith, Barry (1994): *Topological Foundations of Cognitive Science*. – In: Carola Eschenbach, Christopher Habel and Barry Smith (eds.), *Topological Foundations of Cognitive Science, Papers from the Workshop at the FISI-CS*, Buffalo, New York, July 9-10. Graduiertenkolleg Kognitionswissenschaft Hamburg, Report 37, Nov., 3-22.
- Sperling, George, Wurst, Stephen A. und Lu, Zhong-Lin (1992): Using Repetition Detection to Define and Localize the Processes of Selective Attention. David E. Meyer and Sylvan Kornblum (eds.), *Attention and Performance XIV: Synergies in Experimental Psychology, Artificial Intelligence, and Cognitive Neuroscience*. Cambridge, Mass.: The MIT Press, 265–298.
- und Weichselgartner, Erich (1995): Episodic Theory of the Dynamics of Spatial Attention. *Psychological Review* 102, 503–532.
- Stiehl, Siegfried (1990): Issues of Spatial Representation in Computational Vision. – In: Christian Freksa und Christopher Habel (eds.), *Repräsentation und Verarbeitung räumlichen Wissens*. Berlin, Heidelberg, New York, Tokyo: Springer, 83–98.
- Talmy, Leonard (1983): How language structures space. – In: H. Pick, Jr., L. P. Acredolo (eds.), *Spatial orientation: Theory, research, and application*. New York: Plenum Press, 225–282.
- (1988): The Relation of Grammar to Cognition. – In: B. Rudzka-Ostyn (Ed.), *Topics in cognitive linguistics*. Amsterdam: Benjamins, 165–205.
- (1995): The windowing of attention in language. – In: M. Shibatani, S. Thompson (eds.), *Grammatical constructions: their form and meaning*, Oxford: Oxford Univ. Press.
- Taylor, Holly A. und Tversky, Barbara (1992): Spatial Mental Models Derived from Survey and Route Descriptions. *Journal of Memory and Language* 31, 261–292.

- Theeuwes, Jan (1993): Visual Selective Attention: A Theoretical Analysis. *Acta Psychologica* 83, 93–154.
- Tipper, Steven P., Weaver, Bruce, Jerreat, Loretta M. und Burak, Arloene L. (1994): Object-Based and Environment-Based Inhibition of Return of Visual Attention. *Journal of Experimental Psychology: Human Perception and Performance* 20, 478–499.
- Tomlin, R.S. (1998). Mapping Conceptual Representations into Linguistic Representations: The Role of Attention in Grammar. – In J. Nuyts & E. Pederson (Eds.), *With Language in Mind*. Cambridge: Cambridge University Press.
- Treisman, Anne (1988): Features and Objects: The Fourteenth Bartlett Memorial Lecture. *The Quarterly Journal of Experimental Psychology* 40, 201–237.
- und Sato, Sharon (1990): Conjunction Search Revisited. *Journal of Experimental Psychology: Human Perception and Performance* 16, 459–478.
- Trick, Lana M. und Pylyshyn, Zenon W. (1993): What Enumeration Studies can Show us about Spatial Attention: Evidence for Limited Capacity Preattentive Processing. *Journal of Experimental Psychology: Human Perception and Performance* 19, 331–351.
- Tsal, Yehoshua und Lavie, Nilli (1993): Location Dominance in Attending to Color and Shape. *Journal of Experimental Psychology: Human Perception and Performance* 19, 131–139.
- ,Meiran, Nachshon und Lavie, Nilli (1994): The role of attention in illusory conjunctions. *Perception & Psychophysics* 5, 250–358.
- und Shalev, Lilach (1996): Inattention Magnifies Perceived Length: The Attentional Receptive Field Hypothesis. *Journal of Experimental Psychology: Human Perception and Performance* 22, 233–243.
- Tversky, Barbara (1981): Distortions in Memory for Maps. *Cognitive Psychology* 13, 407–433.
- Ullman, Shimon (1984): Visual Routines. *Cognition* 18, 97–160.
- Umiltà, Carlo (1988): Orienting of Attention. – In: F. Boller, J. Grafman (eds.), *Handbook of Neuropsychology*, Vol. 1, 175–193.
- Ungerleider, Leslie G. und Mishkin, Mortimer (1982): Two Cortical Visual Systems. – In: David J. Ingle, Melvyn A. Goodale, Richard J. W. Mansfield (eds.), *Analysis of Visual Behavior*. Cambridge, Mass.: MIT Press. 549–586.
- Vallar, Giuseppe, Rusconi, Maria Luisa und Bisiach, Edoardo (1994): *Awareness of Contralateral Information in Unilateral Neglect: Effects of Verbal Cueing, Tracing, and Vestibular Stimulation*. – In: Carlo Umiltà, Morris Moscovitch (eds.), *Attention and Performance XV : Conscious and Nonconscious Information Processing* (Attention and Performance, No 15).
- Vecera, Shaun P. und Farah, Martha J. (1994): Does Visual Attention Select Objects or Locations? *Journal of Experimental Psychology* 123, 146–160.
- Vieu, Laure (1993): A Logical Framework for Reasoning about Space. – In: A. Frank, I. Campari (eds.), *Spatial Information Theory* (Berlin, Heidelberg, New York, Tokyo: Springer), 25–35.
- Wege, Barbara (1991): On the lexical meanings of prepositions: a study of above, below, over. – In: Gisa Rauh (ed.), *Approaches to Prepositions*. Tübingen: Gunter Narr Verlag, 275–296.
- Wender, Karl F. (1989): Mental Models for Spatial Knowledge. – In: A.F. Bennet, K.M. Conkey (eds.), *Cognition in Individual and Social Contexts*, 47–55.
- Werner, Heinz (1985): Die Semantik der Täuschungen. *Linguistische Berichte* 100, 477–510.
- (1989): Rezension zu Ray Jackendoff, *Semantics and Cognition*. *Linguistische Berichte* 120, 163–167.
- Wilson, Stephanie Gray, Rinck, Mike, McNamara, Timothy P., Bower, Gordon H. und Morrow, Daniel G. (1993): Mental Models and Narrative Comprehension: Some Qualifications. *Journal of Memory and Language* 32, 141–154.
- Wolfe, Jeremy M. (1994): Guided Search 2.0: A Revised Model of Visual Search. *Psychonomic Bulletin & Review* 1, 202–238.
- Wunderlich, Dieter (1982): Sprache und Raum. *Studium Linguistik* 12, 1–19; 13, 37–59.
- (1986): Raum und die Struktur des Lexikons. – In: Hans-Georg Bosshardt (Ed.), *Perspektiven auf Sprache* (Berlin: de Gruyter), 212–231.
- (1990): Ort und Ortswechsel. *Zeitschrift für Literaturwissenschaft und Linguistik* 78, 43–58.

- (1991): How Do Prepositional Phrases Fit into Compositional Syntax and Semantics? *Linguistics* 29, 591–621.
- und Herweg, Michael (1990): Lokale und Direktionale. – In: A.v.Stechow, D. Wunderlich (eds.), *Handbuch der Semantik*, 758–785.
- und Kaufmann, Ingrid (1990): Lokale Verben und Präpositionen - semantische und konzeptuelle Aspekte. – In: S. Felix, S. Kanngießer, G. Rickheit, *Sprache und Wissen*. Opladen: Westdeutscher Verlag, 223–252.
- Yantis, Steven (1992): Multielement Visual Tracking: Attention and Perceptual Organization. *Cognitive Psychology* 24, 295–340.
- Zaidel, Dahlia W. (1990): Memory and Spatial Cognition Following Commissurotomy. *F* 4, 151–166.
- Zernik, U. und Vivier, P. (1988): How near is too Far? Talking about Visual Images. – In: *Proceedings of the 10th Annual Conference of the Cognitive Science Society*, 202–208.
- Zimmermann, Kai und Freksa, Christian (1993): Qualitatives räumliches Schließen mit Wissen über Richtungen, Entfernungen und Pfade. *KI* 4, 21–28.
- Zwarts, Joost (1995): Modification of Prepositions: Evidence for Vectors in Spatial Semantics. – In: P. Amsili, M. Borillo, L. Vieu (eds.), *Proceedings of the International Workshop TSM'95 (Time, Space, and Movement)*, Château de Bonas, E, 45–48.