

Selected Publications

Books

- 1978: Empirische Geometrie und Raum-Zeit-Theorie in mengentheoretischer Darstellung. Scriptor, Kronberg/Ts.
- 1979: Aspekte der physikalischen Begriffsbildung (together with Andreas Kamlah) (eds.). Vieweg, Braunschweig-Wiesbaden.
- 1982: Empirische Theorien: Modelle, Strukturen, Beispiele. Vieweg, Braunschweig-Wiesbaden.
- 1982: Philosophy of Economics, (together with Wolfgang Stegmüller and Wolfgang Spohn) (eds.). Springer, Berlin.
- 1983: Zur Logik empirischer Theorien, (together with Michael Heidelberger) (eds.). de Gruyter, Berlin.
- 1984: Reduction in Science, (together with David Pearce and Heinz-Jürgen Schmidt) (eds.). Reidel, Dordrecht.
- 1985: Theorie und Messung. Springer, Berlin.
- 1987: An Architectonic for Science (together with C. Ulises Moulines and Joseph D. Sneed). Reidel, Dordrecht.
- 1993: Soziale Institutionen. de Gruyter, Berlin.
- 1996: Structuralist Theory of Science: Focal Issues, New Results, (together with C. Ulises Moulines) (eds.). de Gruyter, Berlin.
- 1997: Models for Genetics (together with Chris M. Dawe). Peter Lang, Frankfurt/Main.
- 1997: Die Wissenschaft und ihre Methoden. Verlag Karl Alber, Freiburg.
- 1997: Teorías: modelos, estructuras, ejemplos. (Spanish translation of Empirische Theorien (1982), translated by Agustín González Ruiz), Alianza Editorial, Madrid.
- 2009: Die Wissenschaft und ihre Methoden. 2. vollständig überarbeitete Auflage, Verlag Karl Alber, Freiburg.
- 2012: Una arquitectonica para la ciencia (together with C. Ulises Moulines and Joseph D. Sneed). (Spanish translation of An Architectonic for Science, translated by Pablo Lorenzano), Universidad Nacional de Quilmes, Bernal.
- 2014: Künstliche Gesellschaften - mit PROLOG, (together with Daniel Kurzawe and Klaus Manhart). Vandenhoeck und Ruprecht, Göttingen.
- 2019: Theorie der Wissenschaften, (together with Karl R. Brendel). Springer VS, Wiesbaden.
- 2024: Theorien und Methoden der Wissenschaft. Verlag Karl Alber.

Articles

- 1976: Holismus und Theorienbeladenheit der Beobachtungssprache (Ein Beispiel), *Erkenntnis* 10, 337-48.
- 1977: Generalized Net Structures of Empirical Theories (together with Joseph D. Sneed), Part I: *Studia Logica* 36, 195-211.
- 1978a: Generalized Net Structures of Empirical Theories (together with Joseph D. Sneed), Part II: *Studia Logica* 37, 167-194.
- 1978b: Die epistemologische Rolle des zweiten Newtonschen Axioms, *Philosophia Naturalis* 17, 131-49.
- 1979: On the Status of Arithmetic, *Erkenntnis* 14, 57-85.
- 1980a: Geometry by Ropes and Rods (together with Andreas Kamlah), *Erkenntnis* 15, 245-67.
- 1980b: Günther Ludwigs Grundstrukturen einer physikalischen Theorie, *Erkenntnis* 15, 391-408.
- 1980c: Mathematical Structures as Representations of Intellectual Structures, *Dialectica* 34, 247-62.
- 1980d: On Theoreticity (together with C. Ulises Moulines), *Synthese* 44, 467-94.
- 1981a: Über Quines Beobachtungssätze, *Kant Studien* 72, 336-55.
- 1981b: Sneed's Theory Concept and Vagueness, in: *Structure and Approximation in Physical Theories*, A. Hartkämper and Heinz-Jürgen Schmidt (eds.), New York-London, 147-63.
- 1981c: Die Grundstruktur der klassischen Partikelmechanik und ihre Spezialisierungen (together with C. Ulises Moulines), *Zeitschrift für Naturforschung* 36a, 600-8.
- 1981d: Zum Apriori von Raum und Zeit in der heutigen Physik, Akten des 5. Internationalen Kant-Kongresses, Bonn, 1063-70.
- 1982a: Finality and the Development of Logical Structures of Physical Theories, *Epistemologia* 5, 257-68.
- 1982b: A Logical Reconstruction of Pure Exchange Economics, *Erkenntnis* 17, 23-46.
- 1982c: The Origin and Role of Invariance in Classical Kinematics, in: *Space, Time, and Mechanics*, Dieter Mayr and Georg Süssmann (eds.), Dordrecht, 149-69.
- 1982d: Klassische Stossmechanik (zusammen mit Felix Mühlhölzer), *Zeitschrift für allgemeine Wissenschaftstheorie* 13, 22-39.
- 1983a: A Theory of Literature Logically Reconstructed (together with Heide Göttner), *Poetics* 12, 489-510.
- 1983b: Theory and Measurement, *Erkenntnis* 19, 3-25.

- 1985a: Was ist Inkommensurabilität?, *Kant Studien* 76, 196-213.
- 1985b: On a New Definition of Theoreticity, *Dialectica* 39, 127-45.
- 1985c: Incommensurability, Reduction, and Translation, *Erkenntnis* 23, 255-67.
- 1985d: On the Methodology of Network Analysis in Sociology (together with Henk Flap), *Methodology and Science* 18, 270-283.
- 1985e: The Proper Reconstruction of Exchange Economics, *Erkenntnis* 23, 185-200.
- 1985f: Stufen der Empirizität, *Spiel* 4, 135-53.
- 1986a: Theoretical Terms: A New Perspective, *The Journal of Philosophy* 83, 71-90.
- 1986b: Ist die empirische Wissenschaft hierarchisch geordnet?, *Allgemeine Zeitschrift für Philosophie* 11, 25-37.
- 1986c: Chains of Measurement in Roemer's Determination of the Velocity of Light (together with Friedrich R. Wollmershäuser), *Erkenntnis* 25, 323-344.
- 1986d: The Basic Structure of Neoclassical General Equilibrium Theory (together with Bert Hamminga), *Erkenntnis* 25, 31-46.
- 1986e: Structure and Comparison of Genetic Theories: (1) Classical Genetics (together with Chris M. Dawe), *The British Journal for the Philosophy of Science* 37, 55-69.
- 1986f: Structure and Comparison of Genetic Theories: (2) The Reduction of Character-Factor Genetics to Molecular Genetics (together with Chris M. Dawe), *The British Journal for the Philosophy of Science* 37, 177-91.
- 1986g: The Structure of Empirical Science: Local and Global (together with C. Ulises Moulines and Joseph D. Sneed) in: *Logic, Methodology and Philosophy of Science VII*, Ruth Barcan Marcus et al. (eds.) North-Holland, Amsterdam, 291-306.
- 1987a: The Structure of Daltonian Stoichiometry (together with C. Ulises Moulines and Joseph D. Sneed), *Erkenntnis* 26, 103-27.
- 1987b: On Electrons and Reference (together with Gerhard Zoubek), *Theoria* 2, 365-88.
- 1987c: Reference and the Development of Theories, in: *Logic, Philosophy of Science and Epistemology*, Paul Weingartner and Gerhard Schurz (eds.), Wien, 213-24.
- 1988a: Dichtung, Mythos, Wissenschaft (together with Phillio Marcou), *Erkenntnis* 19, 201-25.

- 1988b: Der Nutzen wissenschaftstheoretischer Analyse: dargestellt an der Frage der Gültigkeit und aus strukturalistische Sicht, in: Wozu Wissenschaftstheorie? , Paul Hoyningen-Huene and Trude Hirsch (eds.), Berlin, 53-74.
- 1989a: On Incommensurability, in: Imre Lakatos and Theories of Scientific Change, K. Gavroglu et al. (eds.), Kluwer, Dordrecht, 287-304.
- 1989b: Ordinary Least Squares as a Method of Measurement (together with Ernst W. Händler), Erkenntnis 30, 129-46.
- 1989c: Completeness for Systems Including Real Numbers (together with Michael Reiter), Studia Logica 48, 67-75.
- 1989d: A Static Theory of Reference in Science (together with Bernhard Lauth and Gerhard Zoubek), Synthese 79, 319-60.
- 1989e: A Reconstruction of Sigmund Freud's Early Theory of the Unconscious (together with Phillio Marcou), in H. Westmeyer (ed.), Psychological Theories from a Structuralist Point of View, Berlin, Springer, 13-31.
- 1990: A Basic Model for Social Institutions, Journal of Mathematical Sociology 16, 1-29.
- 1991a: A Reconstruction of the Hippocratic Humoral Theory of Health (together with Anastassia Eleftheriadis), Journal for General Philosophy of Science 22, 207-27.
- 1991b: An Axiomatic Basis of Accounting: A Structuralist Reconstruction (together with Richard Mattessich), Theory and Decision 30, 213-243.
- 1992a: Game Theory and Power Theory: A Critical Comparison, in: Thomas Wartenberg (ed.), Rethinking Power, Albany, 56-78.
- 1992b: The Structuralist View of Measurement: An Extension of Received Measurement Theories, in: C. Wade Savage and Philip Ehrlich (eds.), Philosophical and Foundational Issues in Measurement Theory , Hillsdale NJ, 93-117.
- 1992c: Kriterien für Entstehung und Wandel sozialer Institutionen, in: G. Melville (ed.), Institutionen und Geschichte, Köln-Weimar-Wien, 73-95.
- 1992d: A Model of Power in Small Groups, in: Hans Westmeyer (ed.), The Structuralist Program in Psychology, Seattle etc.: Hogrefe and Huber, 191-210.
- 1993: A Model for Science Kinematics (together with Bernhard Lauth and Gerhard Zoubek), Studia Logica 52, 519-48.

- 1994a: Exchange versus Influence: A Case of Idealization, in: Bert Hamminga and Neil B. de Marchi (eds.), *Idealization VI: Idealization in Economics*, Poznan Studies 38, Amsterdam: Rodopi, 189-203.
- 1994b: Structuralist Aspects of Idealization (together with Gerhard Zoubek), in: Martti Kuokkanen (ed.), *Idealization VII: Structuralism, Idealization and Approximation*, Poznan Studies 42, 57-79.
- 1995a: Der neue Strukturalismus (together with Joseph D. Sneed), in: Hans Stachowiak (ed.), *Pragmatik Band V, Handbuch pragmatischen Denkens*, Hamburg: Felix Meiner Verlag, 195-226.
- 1995b: On the Comparison of Approximate Empirical Claims (together with Gerhard Zoubek), in: W. E. Herfel et al. (eds.), *Theories and Models in Scientific Processes*, Poznan Studies 44, 327-44.
- 1996a: A Theory of Binary Crises, in: Reiner K. Huber and Rudolf Avenhaus (eds.), *Models for Security Policy in the Post-Cold War Era*, Baden Baden: Nomos, 233-52.
- 1996b: On the Measurement of Action, in: Rainer Hegselmann et al. (eds.) *Modelling and Simulation in the Social Sciences from a Philosophy of Science Point of View*, Dordrecht: Kluwer, 141-56.
- 1996c: Theoretical Terms: Recent Developments, in: W. Balzer and C. U. Moulines (eds.), *Structuralist Theory of Science: Focal Issues, New Results*, Berlin: de Gruyter, 139-66.
- 1997a: The Structure and Verification of Plan-Based Joint Intentions (together with Raimo Tuomela), *International Journal of Cooperative Information Systems* 6, 3-26.
- 1997b: Referenz in wissenschaftlichen Theorien, in: Georg Meggle and Julian Nida-Rümelin (eds.), *Analyomen 2*, Berlin: de Gruyter, 335-41.
- 1997c: A Fixed Point Approach to Collective Attitudes (together with Raimo Tuomela), in: G. Holmström-Hintikka and Raimo Tuomela (eds.), *Contemporary Action Theory Vol II*, Dordrecht: Kluwer, 115-42.
- 1998a: Scientific Problems and their Role in the Evaluation of Science, *Agora* 17, 25-38.
- 1998b: Ranking Political Systems: The Aristotelian and an Institutional View, in N. Avgelis, F. Peonidis (eds.), *Aristotle on Logic, Language and Science*, Thessaloniki: Sakkoulas Publ., 137-53.

- 1999a: Towards the Qualitative, Plan-Based Simulation of International Crises (together with Jörg Sander), *European Journal of Operational Research* 116, 461-76.
- 1999b: Collective Acceptance and Collective Social Notions (together with Raimo Tuomela), *Synthese* 117, 175-205.
- 1999c: The Structure of the Spatial Theory of Elections (together with Volker Dreier), *British Journal for the Philosophy of Science* 50, 613-38
- 1999d: Eine Rolle für Probleme in der Wissenschaftskinematik, in Julian Nida-Rümelin (ed.), *Rationality, Realism, Revision*, Berlin: de Gruyter, 451-6
- 1999e: Eine Theorie des Gemeinschaftlichen (together with Raimo Tuomela), *Facta Philosophica* 1, 55-76
- 1999f: Language and Institutions, in H. E. Wieland (ed.), *Sprache und Sprachen in den Wissenschaften*, Berlin: de Gruyter.
- 2000: SMASS: A Sequential Multi-Agent System for Social Simulation, in R. Suleiman, Klaus G. Troitzsch, Nigel Gilbert (eds.), *Tools and Techniques for Social Science Simulation*, Heidelberg: Physica Verlag, 65-82
- 2001a: Bad Arguments in the Comparison of Game Theory and Simulation in Social Studies (together with Karl R. Brendel and Solveig Hofmann), *Journal of Artificial Societies and Social Simulation (JASSS)*, Vol. 4, no. 2, (12 pages).
- 2001b: Social Institutions, Norms and Practices (together with Raimo Tuomela), in: R. Conte and C. Dellarocas (eds.), *Social Order in Multiagent Systems*, Kluwer, Boston, 161-80.
- 2002: Searle on Social Institutions: A Critique, *Dialectica* 56, 195-211.
- 2003a: Collective Intentions and the Maintenance of Social Practices (together with Raimo Tuomela), *Autonomous Agents and Multi-Agent Systems*, 6, 7-33.
- 2003b: Genderdifferenzen: Medizin zwischen Geschlechtsentwicklung und Genderforschung, (together with Ursula Kuhnle-Krahl), in: *Störfall Gender*, Wiesbaden, Westdeutscher Verlag, 29-35.
- 2008: Künstliche Gesellschaften (together with Karl R. Brendel and Solveig Hofmann), *Facta Philosophica*, 10, 3-24.
- 2010a: Die Tripelstruktur der Begriffe (together with Vladimir Kuznetsov), *Journal of General Philosophy of Science* 41, 21-43.

- 2010b: A Simple Frame for Artificial Societies (together with Karl R. Brendel and Solveig Hofmann), in: A. Ernst and S. Kuhn (eds.), Proceedings of the 3rd World Congress on Social Simulation WCSS2010 (CD-ROM), Kassel Germany: Center for Environmental Systems Research, University of Kassel.
- 2011: A Social Process in Science and Its Content in a Simulation Programm (together with Klaus Manhart), JASSS - Journal of Artificial Societies and Social Simulation, 14 (4) 11.
- 2012a: How We Can Simulate a Society? (together with Solveig Hofmann and Karl R. Brendel), Proceedings of the 8th European Social Simulation Association Conference, (ed. Andreas Koch), Salzburg, Austria 2012, Salzburger Geographische Arbeiten, 111 - 120.
- 2012b: A Reconstruction of the 'Classical' Linguistic Transformational Theory CTL (together with Adriana Gonzalo), *Metatheoria* 2 (2), 25 - 49.
- 2012c: Eine strukturalistische Rekonstruktion einer linguistischen Theorie (together with Adriana Gonzalo), in: Festschrift für P. A. Gemtos, Ant. N. Sakkoulas, Athen, p.155 - 170.
- 2015a: Scientific Simulation as Experiment in Social Science, *Philosophical Inquiry*, 39 (1), 26-37.
- 2015b: Strukturalistische Wissenschaftstheorie (together with C. Ulises Moulines), in: N. Braun and Nicole J. Saam, *Handbuch Modellbildung und Simulationen in den Sozialwissenschaften*, Wiesbaden, Springer VS, 129-53.
- 2018: Digital Humanities and Hermeneutics (together with Anastassia Eleftheriadis and Daniel Kurzawe), *Philosophical Inquiry*, 42 (3/4), 103-13.
- 2021: Was weiss ein Bot?, in: J. L. Brandl, D. Messelken, S. Wedman (eds.), *Denken. Reden. Handeln - Thinking. Talking. Acting.* Open Access Publikation 978-3-200-07526-9 (PDF), 133 - 146.
- 2023: Form and Content: A New Aspect (together with Daniel Kurzawe), CLMPS 2023, Buenos Aires, Argentinien.