

Publications by Gunther Schmidt

At the end of this list, a hint is given as to citation frequency.

2016

- Partiality III: Observability and dispersion, 2016. In preparation.
- A relational view on stochastics, 2016. Revision to appear.
- with MICHAEL WINTER. Relational Topology, 2016. 134 pages, revised and extended, to appear.

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- Arranging binary relations nicely — A Guide. Technical Report 2015-01, Fakultät für Informatik, Universität der Bundeswehr München, December 2015.
- A relational view on stochastics. The Festschrift on the occasion of the 60th birthday of José N. Oliveira, 2015.

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- with MICHAEL WINTER. Relational Topology. Technical Report 2014-03, Fakultät für Informatik, Universität der Bundeswehr München, 76 pages, Nov. 2014.
- with LOTHAR SCHMITZ. Prof. Friedrich L. Bauer und seine Verbindungen zur Fakultät für Informatik — Der Vater der deutschen Informatik. *Hochschulkurier der Universität der Bundeswehr*, 50, 2014. 10–11.
- with MICHAEL WINTER. Relational Mathematics Continued. Tech. Rep. 2014-01, Fakultät für Informatik, Universität der Bundeswehr München, 45 pages, Apr. 2014. <http://arxiv.org/abs/1403.6957>.
- A point-free relation-algebraic approach to general topology. In Höfner et al. [7], pages 226–241.

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- Graphs and Combinatorics, Considered Relationally, 2012. CTW 2012, 11th Cologne-Twente Workshop on Graphs and Combinatorial Optimization (Abstract).
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— with RUDOLF BERGHAMMER Relational Measures and Integration in Preference Modeling. *Journal of Logic and Algebraic Programming* 76/1 (2007), 112–129. Special Issue edited by Georg Struth; DOI: 10.1016/j.jlap.2007.10.001.

— Rectangles, Fringes, and Inverses. In Berghammer et al. [2], pp. 352–366

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2007

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JOCHEN SCHIRMER, GUNTHER SCHMIDT, BERND SCHWESINGER, THOMAS STRÖHLEIN, AND KLAUS WIMMER. METHUSALEM — Ein Programmsystem für die Zuweisung von Lehrkräften. Forschungsauftrag Lehrerzuweisung des Bayer. Staatsministeriums für Unterricht und Kultus am Math. Institut der Technischen Universität München, Abschlußdokumentation, 1973.

— with THOMAS STRÖHLEIN. Einige operative Ansätze zur Lösung von Stundenplanproblemen. Technical Report 7312, Abteilung Mathematik der Technischen Universität München, 1973.

— with THOMAS STRÖHLEIN. Notizen zum Seminar über Baxter-Algebren. Technical Report 7315, Abteilung Mathematik der Technischen Universität München, 1973.

— Shock waves of a continuous model of traffic flow. *Computing*, 9:365–382, 1972.

— Seminar über Themen aus Kombinatorik und Graphentheorie, 1971. Seminararbeiten aus dem WS 1970/71, 94 pages.

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HANS LANGMAACK AND GUNTHER SCHMIDT. Klassen unwesentlich verschiedener Ableitungen als Verbände. In Johannes Dörr and G"unter Hotz, editors, *Automatentheorie und Formale Sprachen*, volume MFO 3 of *BI-Hochschultaschenbücher*, pages 169–182, Mannheim, 1970. Bibl. Inst.

- Ein kontinuierliches Modell für Kraftfahrzeugströmungen. *Computing*, 6:107–120, 1970.
- A method for simulation and optimisation of traffic flow regulated by traffic lights. Technical Report 7010, Abteilung Mathematik der Technischen Universität München, 1970.
- Der Verband der Zöpfe. Technical Report 6914, Abteilung Mathematik der Technischen Universität München, 1969.
- Das Computerprogramm als Flußdiagramm und in Matrizenschreibweise. In Herbert Wölker, editor, *Zensuren aus dem Computer — Objektivierete Auswertung programmierter Prüfungen*, chapter 4, pages 145–150. Manz-Verlag München, 1968. Reihe Pädagogik – Didaktik – Methodik.
- Ein kontinuierliches Modell für Kraftfahrzeugströmungen. Technical Report 6901, Abteilung Mathematik der Technischen Universität München, 1968.
- with THOMAS STRÖHLEIN. Eds.: Seminar über Kombinatorische Probleme. Seminararbeiten aus dem SS 1968. Mathematisches Institut der Technischen Universität München, 1968. 84 pages
- *Fortsetzung holomorpher Abbildungen unter Erweiterung des Bildraumes*. Dissertation, Ludwig-Maximilians-Universität München, 1965.
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- ed.: Seminar über Differentialformen, 1964. Seminararbeiten.
- *Kompaktifizierung normaler komplexer Räume*. Diplomarbeit, Ludwig-Maximilians-Universität München, 1962.

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Deutsche Nationalbibliothek

<https://portal.dnb.de/opac.htm?method=simpleSearch&cqlMode=true&query=idn%3D12940893X>

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has been added for reference purposes:**

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- [12] TINHOFER, G., AND SCHMIDT, G., Eds. *Graph-Theoretic Concepts in Computer Science* (1987), vol. 246 of *Lect. Notes in Comput. Sci.*, Springer-Verlag. Proc. 12th Int'l Workshop WG '86, Kloster Bernried, Jun 17–19, 1986, ISBN 3-540-17218-1, ISBN 0-387-17218-1.

As of 03.09.2016, Google Scholar lists citations concerning persons named "Gunther Schmidt" spread out over many pages out of which 56 are accessible and the rest produces "ERROR". Several "Günther Schmid"s or "Gunter Schmitt"s interfere. Variants of "Schmidt" are very frequent as last name not just in Germany.

It is an arduous task to identify therein my own papers, not least since I have also worked on diverging topics such as, e.g., timetables or traffic flow. There are several other persons named "Gunther Schmidt" who worked on quite similar topics – not to mention those who deal with chemistry, sexuality, and psychology.

My own citations among these 55 pages sum up to 1898, based on the following entries:

[BUCH] Relationen und Graphen

G Schmidt, T Ströhlein – 2013 – books.google.com

Dieses Buch gibt eine neuartige systematische Darstellung der Diskreten Mathematik; sie orientiert sich an Methoden der Relationenalgebra. Ähnlich wie man es sonst nur für die weit entwickelte Analysis im kontinuierlichen Fall und die Matrizenrechnung gewohnt ist, ...

Zitiert von: 171

[BUCH] Relations and graphs: discrete mathematics for computer scientists

G Schmidt, T Ströhlein – 2012 – books.google.com

Relational methods can be found at various places in computer science, notably in data base theory, relational semantics of concurrency, relationaltype theory, analysis of rewriting systems, and modern programming language design. In addition, they appear in ...

Zitiert von: 481

[BUCH] Relational methods in computer science

C Brink, W Kahl, G Schmidt – 2012 – books.google.com

The calculus of relations has been an important component of the development of logic and algebra since the middle of the nineteenth century, when Augustus De Morgan observed that since a horse is an animal we should be able to infer that the head of a horse is the ...

Zitiert von: 204

Timetable construction—an annotated bibliography

G Schmidt, T Ströhlein – The Computer Journal, 1980 – Br Computer Soc

Abstract Papers on timetable construction and related areas are presented which appeared in 1979 or earlier. References to reviews have been added. A sample from the many facets of the timetable problem and some approaches to solving such problems are surveyed.

Zitiert von: 137

[ZITATION] Symmetric quotients

R Berghammer, G Schmidt, H Zierer – 1986 – ... Institut und Institut für Informatik der ...

Zitiert von: 24

[BUCH] Relational mathematics

G Schmidt – 2011 – books.google.com

Relational mathematics is to operations research and informatics what numerical mathematics is to engineering: it is intended to help modelling, reasoning, and computing. Its applications are therefore diverse, ranging from psychology, linguistics, decision aid, ...

Zitiert von: 87

Heterogeneous relation algebra

G Schmidt, C Hattensperger, M Winter – Relational Methods in Computer ..., 1997 – Springer

Abstract So far, relational algebra has been presented in its classical form. Relations are often conceived as something that might be called quadratic or homogeneous; a relation over a set. It is interpreted as a subset $R \subseteq U \times U$ of a Cartesian product of the universe U ...

Zitiert von: 70

[HTML] Relation Algebras: Concept of points and representability

G Schmidt, T Ströhlein – Discrete Mathematics, 1985 – Elsevier

Abstract In the axiomatization of relation algebras by Chin and Tarski certain elements are called right ideals. Aiming at applications in the relational theory of graphs and programs, we call such ideals 'points' and investigate an additional point axiom. First we prove a ...

Zitiert von: 62

[HTML] Programs as partial graphs I: Flow equivalence and correctness

G Schmidt – Theoretical Computer Science, 1981 – Elsevier

Abstract A common feature of most theoretical investigations on semantics, correctness and termination is the strict distinction between the descriptive tool used for the flow of program control and the completely different tool describing single program steps. Since these ...

Zitiert von: 54

Symmetric quotients and domain constructions

R Berghammer, G Schmidt, H Zierer – Information Processing Letters, 1989 – Elsevier

Abstract We introduce the symmetric quotient of two relations as a new construct in abstract relational algebra generalizing the notion of a "noyau" of Riguet. After exhibiting the main properties of symmetric quotients we study applications in domain theory. In particular, we ...

Zitiert von: 46

[PDF] Relational specifications

R Berghammer, G Schmidt – Algebraic Methods in Logic and in ..., 1993 – matwbn.icm.edu.pl

1. Introduction. In the last years the relational calculus of Tarski has widely been used by computer scientists who view it as a convenient formalism for describing fundamental concepts of programming languages. In this paper, abstract relation algebra is proposed ...

Zitiert von: 39

[ZITATION] Programme als partielle Graphen. Habil

G Schmidt – 1977 – ... English as [Sch81a, Sch81b]. 25, 26 ...

Zitiert von: 10

[ZITATION] Programme als partielle Graphen
G Schmidt – 1978 – Inst. für Informatik, Techn. Univ. ...
Zitiert von: 10

[ZITATION] Relational Mathematics, volume 132 of Encyclopedia of Mathematics and its Applications
G Schmidt – 2011 – Cambridge University Press
Zitiert von: 31

A necessary relation algebra for mereotopology
I Düntsch, G Schmidt, M Winter – Studia Logica, 2001 – Springer
Abstract The standard model for mereotopological structures are Boolean subalgebras of the complete Boolean algebra of regular closed subsets of a nonempty connected regular T_0 topological space with an additional "contact relation" C defined by $xCy \iff x \cap y \neq \emptyset$ (\dots)
Zitiert von: 30

Comparing two different approaches to products in abstract relation algebra
R Berghammer, A Haeberer, G Schmidt... – ... and Software Technology ..., 1994 – Springer
Abstract During the development of relation algebra as a formal programming tool, the need of some form of "categorical product" of relations became apparent, whether as a type or as an operation. Two approaches arose in the late 70's and the early 80's which will be ...
Zitiert von: 28

On kernels of graphs and solutions of games: a synopsis based on relations and fixpoints
G Schmidt, T Ströhlein – SIAM Journal on Algebraic Discrete Methods, 1985 – SIAM
We aim at a uniform approach to results concerning the existence of kernels of graphs and introduce new results in the bipartite case. The Galois connection based on the function which assigns to a vertex set the set of its nonpredecessors is investigated using a special ...
Zitiert von: 27

The RELVIEW–system
R Berghammer, G Schmidt – Annual Symposium on Theoretical Aspects of ..., 1991 – Springer
RELVIEW enables the user to edit relations as Boolean matrices (using the mouse pointer). One relation, the "working copy", is displayed on the screen for editing. A whole collection of relations can be kept in the working memory during a working session. Such a collection may also ...
Zitiert von: 24

RALF—A relation–algebraic formula manipulation system and proof checker
C Hattensperger, R Berghammer, G Schmidt – Algebraic Methodology and ..., 1994 – Springer
Abstract In the last years, relational calculus of Tarski and his co–workers has widely been used by computer scientists who view it as a convenient formalism for describing fundamental concepts of programming languages. Among other things, this was motivated ...
Zitiert von: 23

Prototyping relational specifications using higher–order objects

R Berghammer, TF Gritzner, G Schmidt – International Workshop on Higher ..., 1993 – Springer
Abstract An approach is described for the generation of certain mathematical objects (like sets, correspondences, mappings) in terms of relations using relation–algebraic descriptions of higher–order objects. From non–constructive characterizations executable relational ...
Zitiert von: 23

[HTML] Programs as partial graphs II: Recursion
G Schmidt – Theoretical Computer Science, 1981 – Elsevier
Abstract In Part I of the paper, we have proposed a unified relational algebra approach using partial graphs for theoretical investigations on semantics, correctness and termination. This approach is extended here to systems of recursive programs, allowing not only ...
Zitiert von: 22

On the smooth calculation of relational recursive expressions out of first–order non–constructive specifications involving quantifiers
AM Haeberer, GA Baum, G Schmidt – Formal Methods in Programming ..., 1993 – Springer
Abstract The work presented here has its focus on the formal construction of programs out of non–constructive specifications involving quantifiers. This is accomplished by means of an extended abstract algebra of relations whose expressive power is shown to encompass ...
Zitiert von: 22

[ZITATION] Relations and Graphs: Discrete Mathematics for Computer Science
G Schmidt, T Ströhlein – EATCS Monographs on Theoretical Computer Science. ..., 1993
Zitiert von: 22

[BUCH] Exploring (finite) relation algebras using tools written in Haskell
W Kahl, G Schmidt – 2000 – relmics.mcmaster.ca
Abstract During the last few years, relational methods have been gaining more and more acceptance and impact in computer science. Besides applications of concrete relations, also non–standard models of the relation algebraic axioms are important in fields as far apart ...
Zitiert von: 32

RelView and Rath–Two systems for dealing with relations
R Berghammer, G Schmidt, M Winter – Theory and Applications of ..., 2003 – Springer
Abstract In this paper we present two systems for dealing with relations, the RelView and the Rath system. After a short introduction to both systems we exhibit their usual domain of application by presenting some typical examples.
Zitiert von: 20

[HTML] Partiality I: Embedding relation algebras
G Schmidt – The Journal of Logic and Algebraic Programming, 2006 – Elsevier
Parallel processes confront us with both, strict and non–strict situations. As long as no cooperation between processes is supposed to take place, one may consider them separately and need not ask for progress of the other processes. If, however, a composite ...
Zitiert von: 15

[ZITATION] Eine relationenalgebraische Auffassung der Graphentheorie

G Schmidt – Graphen, Algorithmen, Datenstrukturen (WG'76), 1976

Zitiert von: 6

[BUCH] Theory and Applications of Relational Structures as Knowledge Instruments: COST Action 274, TARSKI, Revised Papers

H De Swart, E Orlowska, G Schmidt, M Roubens – 2004 – books.google.com

Relational structures abound in our daily environment: relational databases, data mining, scaling procedures, preference relations, etc. As the documentation of scientific results achieved within the European COST Action 274, TARSKI, this book advances the ...

Zitiert von: 18

[ZITATION] Thomas Ströhlein. Relationen und Graphen. Mathematik für Informatiker

G Schmidt – 1989 – Springer Verlag

Zitiert von: 5

An interactive graphical manipulation system for higher objects based on relational algebra

H Zierer, G Schmidt, R Berghammer – International Workshop on Graph- ..., 1986 – Springer

Abstract A set of bricks is introduced to serve as elementary particles in the programming process. They are highly generic building blocks in a graphical language using DAGs (directed acyclic graphs) and may be manipulated by graphic interaction. Semantics of the ...

Zitiert von: 14

[ZITATION] Relational Language

G Schmidt – 2003 – Univ. der Bundeswehr München, ...

Zitiert von: 13

[BUCH] Theory and Applications of Relational Structures as Knowledge Instruments II: International Workshops of COST Action 274, TARSKI, 2002–2005, Selected ...

H de Swart, E Orlowska, G Schmidt, M Roubens – 2007 – books.google.com

This book is a follow-up of LNCS volume 2929 with the same title, and presents the major results of COST action 274 (2002–2005), TARSKI: Theory and Applications of Relational Structures as Knowledge Instruments. Relational structures abound in the daily ...

Zitiert von: 12

[BUCH] Graph-Theoretic Concepts in Computer Science: 20th International Workshop. WG'94, Herrsching, Germany, June 16–18, 1994. Proceedings

EW Mayr, G Schmidt – 1995 – books.google.com

This volume presents the proceedings of the 20th International Workshop on Graph-Theoretic Concepts in Computer Science (WG'94), held in Herrsching, Germany in June 1994. The volume contains 32 thoroughly revised papers selected from 66 submissions ...

Zitiert von: 13

[HTML] A Boolean matrix iteration in timetable construction

G Schmidt, T Ströhlein – Linear Algebra and Its Applications, 1976 – Elsevier

Abstract The annoying experience in timetable construction is that usually a complete timetable cannot be found without violating or diminishing some preconditions, even if the problem is theoretically solvable. Neither the control of the Hall conditions by Gotlieb's ...

Zitiert von: 12

RELVIEW—A computer system for the manipulation of relations

R Berghammer, G Schmidt – Algebraic Methodology and Software ..., 1994 – Springer

Abstract People working with relations very often use a greater or smaller example and manipulate it with pencil and paper in order to prove or disprove some property. For supporting such a task by machine, the RELVIEW system ([3]) has been constructed at the ...

Zitiert von: 12

Discrete ordering relations

R Berghammer, G Schmidt – Discrete Mathematics, 1983 – Elsevier

Abstract Discreteness is usually defined in terms of topology. In discrete mathematics, however, it was sometimes felt that other notions of discreteness should be at hand. We propose the notion of discreteness as a fixed point property of a relation. Using relational ...

Zitiert von: 12

[ZITATION] Diskrete Mathematik: Relationen, Graphen u. Programme

G Schmidt, T Ströhlein – 1986 – Inst. f. Mathematik u. Informatik d. TU

Zitiert von: 4

[ZITATION] Klassen unwesentlich verschiedener Ableitungen als Verbände

H Langmaack, G Schmidt – Tagungsbericht Automatentheorie und Formale ..., 1970

Zitiert von: 4

[BUCH] Theoretical Foundations of Programming Methodology: Lecture Notes of an International Summer School, Directed by FL Bauer, EW Dijkstra and CAR Hoare

M Broy, G Schmidt – 2012 – books.google.com

Papers presented at the Marktoberdorf Summer School on Theoretical Foundations of Programming Methodology, organized under the auspices of the Technical University Munich and sponsored by the NATO Scientific Affairs Division, Germany, 1981

Zitiert von: 10

[PDF] A proposal for a multilevel relational reference language

G Schmidt – Journal of Relational Methods in Computer Science, 2004 – cosc.brocku.ca

Abstract. A highly expressive multilevel relational reference language is proposed that covers most possibilities to use relations in practical applications. The language is designed to describe work in a heterogeneous setting. It originated from a Haskell-based system ...

Zitiert von: 10

[ZITATION] Relation algebra and logic of programs

R Berghammer, P Kempf, G Schmidt, T Ströhlein – Algebraic Logic, 1988

Zitiert von: 10

[ZITATION] Manipulation of concrete relations: The RELVIEW-system

H Abold-Thalman, R Berghammer, G Schmidt – 1989 – Univ. d. Bundeswehr, Fak. für ...

Zitiert von: 8

Rectangles, fringes, and inverses

G Schmidt – International Conference on Relational Methods in ..., 2008 – Springer

Abstract Relational composition is an associative operation; therefore semigroup considerations often help in relational algebra. We study here some less known such effects and relate them with maximal rectangles inside a relation, ie, with the basis of concept ...

Zitiert von: 7

Investigating programs in terms of partial graphs

G Schmidt – International Colloquium on Automata, Languages, ..., 1979 – Springer

Abstract A common feature of most theoretical investigations on semantics, correctness, and termination is a strict distinction between one descriptive tool used for the flow of control of the program and another for single program steps. This paper exhibits a unified approach ...

Zitiert von: 7

[BUCH] Decomposing Relations: Data Analysis Techniques for Boolean Matrices

G Schmidt – 2002 – webdoc.sub.gwdg.de

Abstract Known and new methods of decomposing a boolean relation are presented together with methods of making the decomposition visible. Homogeneous and heterogeneous relations are handled with non-iterative as well as iterative methods. Such ...

Zitiert von: 7