

A Bibliography of Publications of Ulrich Nitsche

Ulrich Nitsche
University of Zurich
Department of Computer Science
Winterthurer Str. 190
CH-8057 Zurich
Switzerland

Tel: ?n/a?
FAX: ?n/a?

E-mail: nitsche@ifi.unizh.ch (Internet)

19 February 2013
Version 1.06

Abstract

This bibliography records publications of Ulrich Nitsche.

Title word cross-reference

* [Nit97]. ω [NNO97, NNO98].

-Regular [NNO97, NNO98].

/Telekom [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b].

31 [AH96]. 31-August [AH96].

4th [AN97].

8th [AH96].

'94 [NM94]. '96 [AH96]. '97 [AN97].

Abschlußbericht [DFVGE⁺95, DFVGE⁺96a].

Abstract [MNT97b, NW97].

Abstraction [CDGE⁺96, CDFV⁺96,

Nit94c, Nit96b, NW97, Nit98, Nitxx].

Abstractions [Nit94d].

adequate [BAUN07]. **aided** [AH96].

Angeles [ACM94]. **Annual** [ACM94].

Application [Nit98].

Applications [Wag97].

Approach [BHM⁺97].

Approximately [NO95a, NO96a, NO96b].

Approximation [UN02].

August [ACM94, ACM97, AH96].

Auswertung [Nit88]. **automata** [UN07].

Barbara [ACM97]. **Based** [Nit94c].

Behandlung [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b].

Behavior [CDFV⁺96, Nit96b, NW97].

Behaviour [CDGE⁺96, Nit98, Nitxx].

biology [DRS96]. **Brunswick** [AH96].

Büchi [UN07].

- California** [ACM94, ACM97].
Care [MNT97c, MNT98].
Case [CDGE⁺96, CDFV⁺96]. **CAV** [AH96].
characterization [NUN07]. **Co** [Nitxx].
Co-Operating [Nitxx]. **complete** [NUN07].
Computation [Nit97].
Computer [AH96, AN97, DRS96, NM94].
Computing [ACM94, ACM97].
Concerns [MNT97c]. **conference** [AH96].
construction [UN07]. **crossroads** [DRS96].
CTL [Nit97].
- Database** [Wag97].
Datenschutz [MNT97a]. **degree** [UN07].
Detection [CDGE⁺96, CDFV⁺96].
determinism [UN07].
Deterministic [NNO97, NNO98, NUN07].
Developments [DRS96].
Distributed [ACM94, ACM97, Nit96b].
Do [UN02].
- Efficiency** [MNT97b, MNT98].
Eighth [Wag97]. **eingeschränkte** [Nit91a].
EIS [BAUN07]. **Enterprise** [AUN04].
Erreichbarkeitsanalyse [Nit91b].
Erreichbarkeitsgraphen [Nit88].
Erreichbarkeitsproblem [Nit91a].
Expert [Wag97]. **Extended** [NW97].
- Finitary** [Nit96a]. **Focused** [MNT98].
Formal [CDGE⁺96, Nit98].
Formale [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b]. **Formulas** [Nit94d].
foundations [AN97, NM94].
France [Wag97]. **Full** [Nit97].
- Germany** [DRS96]. **GMD** [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b].
GMD- [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b].
GMD-/Telekom-Projekts [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b].
Graphs [Nit94d].
- Health** [MNT97c, MNT98].
Homomorphic [Nit94c].
Homomorphisms [Nit94a, Nit94b, NO95a, NO96a, NO96b].
- ihre** [Nit88]. **II** [DRS96]. **Infinite** [Nit97].
Information [AUN04, MNT97c].
Intelligent [CDFV⁺96, Nit98].
Interaction [CDGE⁺96, CDFV⁺96, DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b, Nit98]. **International** [AUN04, Wag97, AN97, AH96, NM94].
Interpretation [Nit97].
- July** [AN97, AH96, DRS96, NM94].
- Krankenhausinformationssysteme** [MNT97a].
- Language** [Nit94a, NO95a, NO96a, Nit96a, DRS96, NO96b]. **Large** [Nit94d, Nit96b].
LFCS [AN97, NM94].
Linear [Nit94a, Nit94b, Nit96a].
Liveness [NNO97, NNO98, NW97, UN02, NUN07].
Logic [Nit94a, Nit94b, Nit94d, Nit96a, Nit97].
Logical [AN97, NM94].
- Magdeburg** [DRS96].
mathematics [DRS96].
Medical [BHM⁺97, MNT97b].
Method [Nit94c].
Mobile [MNT97b, MNT97c].
MobiMed [BHM⁺97, MNT97b].
Model [Nit94c].
- Need** [UN02].
Networks [CDFV⁺96, Nit98]. **NJ** [AH96].
non [UN07]. **non-determinism** [UN07].
- Operating** [Nitxx].
- Patient** [MNT98]. **Petersburg** [NM94].
Poster [MNT97b]. **power** [UN07].
power-set [UN07].

- Principles** [ACM94, ACM97].
Privacy [BHM⁺97, MNT97b, MNT98].
Problem [Nit98].
Problematik [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b].
Proceedings [ACM94, ACM97, Wag97, AH96, NM94]. **Processes** [MNT98].
Produktnetze [Nit91a].
Produktnetzen [Nit88, Nit91b].
Projekts [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b]. **PROLOG** [Nit88].
Properties [NNO97, NNO98, NO95a, NO96a, UN02, NUN07, NO96b].
Propositional [Nit94a, Nit96a].
Qualitätskriterium [MNT97a].

Reachability [Nit94d]. **reducing** [UN07].
Regular [NNO97, NNO98, NUN07].
Relative [NW97]. **Russia** [AN97, NM94].

Safety [UN02]. **Santa** [ACM97].
Satisfied [NO95a, NO96a, NO96b].
science [AN97, DRS96, NM94].
Second [AUN04]. **Security** [MNT97c].
Semantics [Nit96a]. **September** [Wag97].
Sequences [Nit97].
Service [CDGE⁺96, CDFV⁺96, DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b, Nit98].
Service-Interaction-
Problematik [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b].
SERVINT [DFVGE⁺95, NO95b].
SERVINT2 [DFVGE⁺96b].
SERVINTII [DFVGE⁺96a].
Session [MNT97b]. **set** [UN07].
Sets [Nit97]. **SH** [NOR96, NORR97].
SH-Verification [NOR96, NORR97].
Simple [Nit94b, NO95a, NO96a, NO96b].
Sixteenth [ACM97].
Spezifikations [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b].
Spezifikations- [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b]. **St** [NM94].

Study [CDGE⁺96, CDFV⁺96].
Symposium [ACM94, ACM97, AN97, NM94]. **Systems** [AUN04, BHM⁺97, MNT97b, MNT97c, NO95a, NO96a, Nit96b, Nitxx, Wag97, NO96b].

Technique [Nit96b].
Telekom-Projekts [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b].
Telephone [CDFV⁺96].
Temporal [Nit94a, Nit94b, Nit94d, Nit96a].
theory [DRS96]. **third** [NM94].
Thirteenth [ACM94].
Tool [NORR97, NOR96].
Toulouse [Wag97]. **Tractable** [Nit96b].
Tree [Nit97]. **two** [UN07].

USA [ACM94, AH96].

Validation [AUN04]. **Verification** [AUN04, CDGE⁺96, CDFV⁺96, Nit94c, Nit96b, NORR97, Nit98, Nitxx, AH96, NOR96].
Verifikationsmethoden [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b].
Verifying [Nit94d].

Workshop [AUN04, Wag97].

Yaroslavl [AN97].

zur [DFVGE⁺95, DFVGE⁺96a, DFVGE⁺96b, NO95b]. **Zwischenbericht** [DFVGE⁺96b, NO95b].

References

ACM:1994:PTA

- [ACM94] ACM, editor. *Proceedings of the Thirteenth Annual ACM Symposium on Principles of Distributed Computing: Los Angeles, California, USA, August 14–17, 1994.* ACM

- Press, New York, NY 10036, USA, 1994. ISBN 0-89791-654-9. LCCN QA76.9.D5 A33 1994.
- ACM:1997:PSA**
- [ACM97] ACM, editor. *Proceedings of the Sixteenth ACM Symposium on Principles of Distributed Computing: Santa Barbara, California, August 21–24, 1997*. ACM Press, New York, NY 10036, USA, 1997. ISBN 0-89791-952-1. ACM order number 536970.
- Alur:1996:CAV**
- [AH96] Rajeev Alur and T. A. (Thomas A.) Henzinger, editors. *Computer aided verification: 8th international conference, CAV '96, New Brunswick, NJ, USA, July 31-August 3, 1996: proceedings*, volume 1102 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1996. ISBN 3-540-61474-5. ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN QA76.76.V47 C38 1996.
- Adian:1997:LFC**
- [AN97] Sergei Adian and Anil Nerode, editors. *Logical foundations of computer science: 4th international symposium, LFCS '97, Yaroslavl, Russia, July 6–12, 1997*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1997. LCCN QA76.55 .L43 1997. 1997. LCCN QA75.5 .L43 1997.
- Augusto:2004:SIW**
- J. C. Augusto and U. Ultes-Nitsche. Second international workshop on verification and validation of enterprise information systems. *J. UCS: Journal of Universal Computer Science*, 10(11):1495–1497, November 28, 2004. CODEN ????. ISSN 0948-6968. URL <http://www.jucs.org/free>; http://www.jucs.org/jucs_10_11/second_international_workshop_on.
- Barjis:2007:TMA**
- [BAUN07] Joseph Barjis, Juan Carlos Augusto, and Ulrich Ultes-Nitsche. Towards more adequate EIS. *Science of Computer Programming*, 65(1):1–3, March 1, 2007. CODEN SCPGD4. ISSN 0167-6423 (print), 1872-7964 (electronic).
- Bauknecht:1997:MAP**
- [BHM⁺97] Kurt Bauknecht, Ralph Holbein, Othmar Morger, Ulrich Nitsche, and Stephanie Teufel. The mobimed approach to privacy in medical systems. In *Proceedings of the 2nd Nordic Workshop on Secure Computer Systems (NORDSEC'97)*. ????, ????, 1997. To be published.

- Capellmann:1996:VBA**
- [CDFV⁺96] Carla Capellmann, Ralph Demant, Farhad Fatahi-Vanani, Raphael Galvez-Estrada, Ulrich Nitsche, and Peter Ochsenschläger. Verification by behavior abstraction: A case study of service interaction detection in intelligent telephone networks. In Alur and Henzinger [AH96], pages 466–469. ISBN 3-540-61474-5. ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN QA76.76.V47 C38 1996.
- Capellmann:1996:CSS**
- [CDGE⁺96] Carla Capellmann, Ralph Demant, Raphael Galvez-Estrada, Ulrich Nitsche, and Peter Ochsenschläger. Case study: Service interaction detection by formal verification under behaviour abstraction. In Tiziana Margaria, editor, *Proceedings of the 1st International Workshop on Advanced Intelligent Networks (AIN'96)*, pages 71–90. ????, ????, March 1996.
- Demant:1995:ABG**
- [DFVGE⁺95] Ralph Demant, Farhad Fatahi-Vanani, Rafael Galvez-Estrada, Ulrich Nitsche, and Peter Ochsenschläger. Abschlußbericht des GMD-/Telekom-Projekts Formale Spezifikations- und Verifikationsmethoden zur Behandlung der Service-Interaction-Problematik — SERVINT. Abschlußbericht, GMD, Bonn, Germany, Dezember 1995.
- Demant:1996:ABG**
- [DFVGE⁺96a] Ralph Demant, Farhad Fatahi-Vanani, Rafael Galvez-Estrada, Astrid Link, Ulrich Nitsche, Armin Noll, Peter Ochsenschläger, Jürgen Repp, and Roland Rieke. Abschlußbericht des GMD-/Telekom-Projekts Formale Spezifikations- und Verifikationsmethoden zur Behandlung der Service-Interaction-Problematik — SERVINTII. Abschlußbericht, GMD, Bonn, Germany, Dezember 1996.
- Demant:1996:ZGT**
- [DFVGE⁺96b] Ralph Demant, Farhad Fatahi-Vanani, Rafael Galvez-Estrada, Ulrich Nitsche, and Peter Ochsenschläger. Zwischenbericht des GMD-/Telekom-Projekts Formale Spezifikations- und Verifikationsmethoden zur Behandlung der Service-Interaction-Problematik — SERVINT2. Zwischenbericht, GMD, Bonn, Germany, July 1996.
- Dassow:1996:DLT**
- [DRS96] Jurgen Dassow, Grzegorz Rozenberg, and Arto Salomaa, editors. *Developments in language theory II: at the crossroads of mathematics, computer science, and biology : Magdeburg, Germany, 17–21 July 1995*. World Scientific Publishing Co. Pte. Ltd., P. O. Box 128, Farrer Road, Singapore.

- pore 9128, 1996. ISBN 981-02-2682-9. LCCN QA267.3 .D483 1996.
- Morger:1997:DQK**
- [MNT97a] Othmar Morger, Ulrich Nitsche, and Stephanie Teufel. Datenschutz als Qualitätskriterium für Krankenhausinformationssysteme. In *42. Jahrestagung der Deutschen Gesellschaft für Medizinische Informatik, Biometrie und Epidemiologie (GMDS) '97*. ????, ????, 1997.
- Morger:1997:MPE**
- [MNT97b] Othmar Morger, Ulrich Nitsche, and Stephanie Teufel. Mobimed — privacy and efficiency in mobile medical systems (abstract to the poster session). In *Proceedings of the 12th International Workshop on Computing in Clinical Laboratories (CCL'97)*. ????, ????, 1997.
- Morger:1997:SCM**
- [MNT97c] Othmar Morger, Ulrich Nitsche, and Stephanie Teufel. Security concerns for mobile information systems in health care. In Wagner [Wag97], pages 312–317. ISBN 0-8186-8147-0, 0-8186-8148-9 (case), 0-8186-8149-7 (microfiche). LCCN QA76.9.D3 D15592 1997b.
- Morger:1998:PEP**
- [MNT98] Othmar Morger, Ulrich Nitsche, and Stephanie Teufel. Privacy and efficiency in patient focused health care processes. In *Proceedings of the 9th World Congress on Medical Informatics (MedInfo '98)*. ????, ????, 1998.
- Nitsche:1988:EPI**
- Ulrich Nitsche. Erreichbarkeitsgraphen von Produktnetzen und ihre Auswertung in PROLOG. Arbeitspapiere der GMD 330, Gesellschaft für Mathematik und Datenverarbeitung (GMD), Darmstadt, August 1988.
- Nitsche:1991:EEP**
- Ulrich Nitsche. Das Erreichbarkeitsproblem für eingeschränkte Produktnetze. Diploma thesis, University of Frankfurt, Germany, February 1991. Presented at the ITHEM-Meeting at the École Normale Supérieure, Paris, 1991.
- Nitsche:1991:EP**
- Ulrich Nitsche. Erreichbarkeitsanalyse von Produktnetzen. Arbeitspapiere der GMD 521, Gesellschaft für Mathematik und Datenverarbeitung (GMD), Darmstadt, April 1991.
- Nitsche:1994:PLT**
- U. Nitsche. Propositional linear temporal logic and language homomorphisms. *Lecture Notes in Computer Science*, 813:265–277, 1994. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic).

- Nitsche:1994:SHL**
- [Nit94b] Ulrich Nitsche. Simple homomorphisms and linear temporal logic. *Arbeitspapiere der GMD* 889, GMD — Forschungszentrum Informationstechnik, Darmstadt, December 1994.
- Nitsche:1994:VMB**
- [Nit94c] Ulrich Nitsche. A verification method based on homomorphic model abstraction. In ACM [ACM94], page 393. ISBN 0-89791-654-9. LCCN QA76.9.D5 A33 1994.
- Nitsche:1994:VTL**
- [Nit94d] Ulrich Nitsche. Verifying temporal logic formulas in abstractions of large reachability graphs. In Jörg Desel, Andreas Oberweis, and Wolfgang Reisig, editors, *National Workshop on Algorithms and Tools for Petri Nets (Algorithmen und Werkzeuge für Petrinetze, AWP'94)*, pages 42–47. Humboldt Universität Berlin, Berlin, Germany, 1994.
- Nitsche:1996:FLS**
- [Nit96a] Ulrich Nitsche. A finitary language semantics for propositional linear temporal logic. In Dassow et al. [DRS96], pages 482–489. ISBN 981-02-2682-9. LCCN QA267.3 .D483 1996.
- Nitsche:1996:VBA**
- [Nit96b] Ulrich Nitsche. Verification and behavior abstraction towards a tractable verification technique for large distributed systems. *The Journal of Systems and Software*, 33(3):273–285, June 1996. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic).
- Nitsche:1997:IFC**
- [Nit97] Ulrich Nitsche. Interpretation of the full computation tree logic CTL* on sets of infinite sequences. In Adian and Nerode [AN97], pages 276–282. LCCN QA75.5 .L43 1997.
- Nitsche:1998:AFV**
- [Nit98] Ulrich Nitsche. Application of formal verification and behaviour abstraction to the service interaction problem in intelligent networks. *The Journal of Systems and Software*, 40(3):227–248, March 1998. CODEN JSSODM. ISSN 0164-1212 (print), 1873-1228 (electronic).
- Nitsche:19xx:VCO**
- [Nitxx] Ulrich Nitsche. *Verification of Co-Operating Systems and Behaviour Abstraction*. PhD thesis, University of Frankfurt, Germany, 19xx. Handed in 1996.
- Nerode:1994:LFC**
- [NM94] Anil Nerode and Iu. V. Matiasevich, editors. *Logical foundations of computer science: third international symposium, LFCS '94, St. Petersburg, Russia, July 11–*

- 14, 1994: *proceedings*, volume 813 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1994. CODEN LNCSD9. ISBN 3-540-58140-5 (Berlin), 0-387-58140-5 (New York). ISSN 0302-9743 (print), 1611-3349 (electronic). LCCN QA75.5 .L64 1994.
- Niessner:1997:DRL**
- [NNO97] Frank Nießner, Ulrich Nitsche, and Peter Ochsenschläger. Deterministic ω -regular liveness properties. In *Preproceedings of the 3rd International Conference on Developments in Language Theory (DLT'97)*. Aristotle University of Thessaloniki, Greece, ????, ????, 1997.
- Niessner:1998:DRL**
- [NNO98] Frank Nießner, Ulrich Nitsche, and Peter Ochsenschläger. Deterministic ω -regular liveness properties. In *Proceedings of the 3rd International Conference on Developments in Language Theory (DLT'97)*. ????, ????, 1998. To be published.
- Nitsche:1995:ASP**
- [NO95a] Ulrich Nitsche and Peter Ochsenschläger. Approximately satisfied properties of systems and simple language homomorphisms. *Arbeitspapiere der GMD* 965, GMD — Forschungszentrum Informationstechnik, Darmstadt, December 1995.
- Nitsche:1995:ZGT**
- Ulrich Nitsche and Peter Ochsenschläger. Zwischenbericht des GMD-/Telekom-Projekts Formale Spezifikations- und Verifikationsmethoden zur Behandlung der Service-Interaction-Problematik — SERVINT. Zwischenbericht, GMD, Bonn, Germany, Juli 1995.
- Nitsche:1996:ASPa**
- Ulrich Nitsche and Peter Ochsenschläger. Approximately satisfied properties of systems and simple language homomorphisms. In *Proceedings of the 1st International Workshop on Formal Methods for Industrial Critical Systems (FMICS'96)*. ????, ????, March 1996.
- Nitsche:1996:ASPB**
- Ulrich Nitsche and Peter Ochsenschläger. Approximately satisfied properties of systems and simple language homomorphisms. *Information Processing Letters*, 60(4):201–206, November 25, 1996. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).
- Nitsche:1996:SVT**
- Ulrich Nitsche, Peter Ochsenschläger, and Jürgen Repp. The SH-Verification Tool. *Arbeitspapiere der GMD* 1007,

- GMD — Forschungszentrum Informationstechnik, Darmstadt, July 1996.
- Nitsche:1997:SVT**
- [NORR97] Ulrich Nitsche, Peter Ochsenschläger, Jürgen Repp, and Roland Rieke. The SH-verification tool. In *Proceedings of the 2nd International Workshop on Formal Methods for Industrial Critical Systems (FMICS'97)*. ????, ????, 1997.
- Niessner:2007:CCD**
- [NUN07] Frank Nießner and Ulrich Ultes-Nitsche. A complete characterization of deterministic regular liveness properties. *Theoretical Computer Science*, 387(2):187–195, November 12, 2007. CODEN TCSCDI. ISSN 0304-3975 (print), 1879-2294 (electronic).
- Nitsche:1997:RLB**
- [NW97] Ulrich Nitsche and Pierre Wolper. Relative liveness and behavior abstraction (extended abstract). In ACM [ACM97], pages 45–52. ISBN 0-89791-952-1. ACM order number 536970.
- Ultes-Nitsche:2002:DWN**
- [UN02] Ulrich Ultes-Nitsche. Do we need liveness? — approximation of liveness properties by safety properties. *Lecture Notes in Computer Science*, 2540:279–??, 2002. CODEN LNCSD9. ISSN 0302-9743 (print), 1611-3349 (electronic). URL <http://link.springer.de/link/service/series/0558/bibs/2540/25400279.htm>; <http://link.springer.de/link/service/series/0558/papers/2540/25400279.pdf>.
- Ultes-Nitsche:2007:PSC**
- [UN07] Ulrich Ultes-Nitsche. A power-set construction for reducing Büchi automata to non-determinism degree two. *Information Processing Letters*, 101(3):107–111, February 14, 2007. CODEN IFPLAT. ISSN 0020-0190 (print), 1872-6119 (electronic).
- Wagner:1997:PEI**
- [Wag97] Roland R. Wagner, editor. *Proceedings: Eighth International Workshop on Database and Expert Systems Applications, September 1–2, 1997, Toulouse, France*. IEEE, 1109 Spring Street, Suite 300, Silver Spring, MD 20910, USA, 1997. ISBN 0-8186-8147-0, 0-8186-8148-9 (case), 0-8186-8149-7 (microfiche). LCCN QA76.9.D3 D15592 1997b.