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 QA75.5 .L43 1997.

Augusto:2004:SIW

[AUN04] 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 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 Epidemologie (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

[Nit88] 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

[Nit91a] Ulrich Nitsche. Das Erreichbarkeitsproblem für eingeschränkte Produktnetze. Diploma thesis, University of Frankfurt, Germany, February 1991. Presented at the ITHEM-Meeting at the École Normale Supérieur, Paris, 1991.

Nitsche:1991:EP

[Nit91b] Ulrich Nitsche. Erreichbarkeitsanalyse von Produktnetzen. Arbeitspapiere der GMD 521, Gesellschaft für Mathematik und Datenverarbeitung (GMD), Darmstadt, April 1991.

Nitsche:1994:PLT

[Nit94a] 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 in 1996.

Nerode:1994:LFC

[NM94] Anil Nerode and Iu. V. Matiiasevich, 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

[NO95b] 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

[NO96a] 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

[NO96b] 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

[NOR96] 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.