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Personal Data

Peter Leupold

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Born: September 1st, 1974, Hof, Germany

Marital Status: Married, two children

Nationality: German



School Education

1980-1984	Grundschule Helmbrechts (grades 1-4)
1984/1985	Hauptschule Helmbrechts (5th grade)
1985-1992	Gymnasium Münchberg (grades 5-11)
1992/1993	Crane High School, Crane, Texas, USA (12th grade)
1993-1995	Gymnasium Münchberg (grades 12-13), Abitur (final grade 1,3)

University Education

1996-2002	Studies in Informatics and Linguistics at Friedrich Schiller University Jena (FSU)
3/2002	Graduation as Diplominformtiker (cum laude), FSU Jena Thesis topic: Potenzen von Sprachen Supervisor: Gerhard Lischke
2002-2006	Participation in the <i>PhD-School in Formal Languages and Ap- plications</i> , Universitat Rovira i Virgili, Tarragona, Spain
11/2006	Defense of the Dissertation (excellent cum laude per unanimitat), URV Tarragona Topic: Languages Generated by Iterated Idempotencies Supervisors: Juhani Karhumäki (Turku), Victor Mitrana (Tar- ragona, Bucarest)

Employment/Fellowships

2019-2022	Scientific assistant at the <i>Databases</i> group at the University of Bremen
2013-2014	Scientific assistant at the <i>Automata and Formal Languages</i> group at the University of Leipzig
2010-2012	Beatriu de Pinós Researcher funded by the Generalitat de Catalunya at Rovira i Virgili University, Tarragona
2009-2010	Return Fellow of the Humboldt Foundation at the University of Kassel, Project <i>String-Rewriting in Natural Computing</i>
2007-2009	Postdoctoral fellow at Kyoto Sangyo University with a grant from the Japanese Society for the Promotion of Science (Pre-selection in Germany by Alexander von Humboldt Foundation)
2003-2006	PhD grant from the Spanish Ministry of Science and Education (FPU programme)
2002	Exchange grant from the Spanish Foreign Ministry (Becas MAE)

Research Stays

8 / 2012	University of Leipzig (one week)
2 / 2012	Kyoto Sangyo University
3 / 2011	Kyoto Sangyo University
3 / 2010	Kyoto Sangyo University
6-8 / 2006	University Turku/ Turku Center for Computer Science
9-12 / 2005	Kyoto Sangyo University
6-12 / 2004	University of Turku/ Turku Center for Computer Science
9 / 2003	Two weeks in Hungary (Budapest, Debrecen, Szombathely)
10 / 2002	Two weeks in Hungary (Budapest, Győr, Szombathely)

Invited Lectures

2014	Kyoto Sangyo University
2012	Kyoto Sangyo University, University of Leipzig
2011	Kyoto Sangyo University
2010	University of Kassel (Computational Algebra Group), Kyoto Sangyo University, University of Kyushu, Tokyo University (Nanophotonics Group), University of Aizu, University of the Witwatersrand, Johannesburg
2009	Toho University, Humboldt Network Congress (Heidelberg)

2008	Toho University, Shizuoka Institute of Technology
2007	Shizuoka Institute of Technology
2006	University Turku
2005	Kyoto Sangyo University, Shizuoka Institute of Technology, Waseda University Tokyo
2004	University Jena, University Turku
2003	University Debrecen, Eötvös Lorand University Budapest, Szombathely College
2002	Eötvös Lorand University Budapest, University Győr, Szombathely College

Acquired Projects

2007-9	<i>Grant-in-Aid for Scientific Research</i> of the Japanese Society for the Promotion of Science (2,400,000 Yen), Project <i>Idempotency Closure of Languages</i> .
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Collaboration in Funded Research Projects

2007-09	Japanese Society for the Promotion of Science (JSPS) Grant-in-Aid for Scientific Research (2,400,000 Yen), Project <i>Idempotency Closure of Languages</i> , (Responsible Researchers: Masami Ito, Peter Leupold)
2006-08	Japanese Society for the Promotion of Science (JSPS) and Hungarian Academy of Sciences, Joint Project <i>Automata and Formal Languages</i> (Responsible Researchers: Masami Ito, Pál Dömösi)
2001-03	Deutsches Zentrum für Luft- und Raumfahrt (DLR), Project <i>Formal Languages</i> (Responsible Researchers: Manfred Kudlek, Sándor Horváth)

Refereeing for

Journals

Acta Informatica

Discrete Applied Mathematics

Frontiers of Computer Science in China

Fundamenta Informaticae

Information Sciences
Information and Computation
International Journal of Computer Mathematics
International Journal of Foundations of Computer Science
Journal of Automata, Languages and Combinatorics
Journal of Computer and System Sciences
Journal of Discrete Algorithms
Kybernetika
Mathematics Applied in Science and Technology
Minds and Machines
Publicationes Mathematicae Debrecen
Romanian Journal of Information Science and Technology
Theoretical Computer Science

Conferences

Automata and Formal Languages (AFL) 2014
Computability in Europe (CiE) 2010, 2014
Computer Science in Russia (CSR) 2013, 2014
Developments in Language Theory (DLT) 2007, 2008, 2009, 2013, 2020
IEEE Conference on Information Technology and Data Science (CITDS) 2022
International Colloquium on Automata, Languages and Programming (ICALP) 2011, 2018
International Conference on Bio-Inspired Models of Network, Information, and Computing Systems 2010
International Conference on Implementation and Application of Automata (CIAA) 2009, 2010, 2021
International Workshop on the Complexity of Simple Programs 2008
International Workshop on Combinatorial Algorithms (IWOCA) 2021
Languages and Automata, Theory and Applications (LATA) 2009, 2010
Mathematical Foundations of Computer Science (MFCS) 2004, 2013

Symposium on Theoretical Aspects of Computer Science (STACS)
2016

Theory and Applications of Models of Computation (TAMC)
2015

Membership in Programme Committees

12th International Workshop on Non-Classical Models of Automata and Applications (NCMA), Debrecen, Hungary, 2022.

9th Conference on Machines, Computations and Universality (MCU), Debrecen, Hungary, 2022.

7th Conference on Machines, Computations and Universality (MCU), Famagusta, North Cyprus, 2015.

8th Intl. Conference on Bio-inspired Information and Communications Technologies, Boston, 2014.

6th Intl. Workshop on Non-Classical Models of Automata and Applications (NCMA), Kassel, 2014.

5th Intl. Workshop on Non-Classical Models of Automata and Applications (NCMA), Umea, 2013.

Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS), Salamanca, 2011. Special session: Bio-Inspired and Multi-Agents Systems: Applications to Languages.

International ICST Conference on Bio-Inspired Models of Network, Information and Computing Systems (BIONETICS), Boston, 2010. Track: Artificial Life and Bio-inspired Robotics.

Membership in Organizing Committees

International Conference on Implementation and Application of Automata (CIAA), Bremen, 2021

Automaten und Formale Sprachen, Bremen, 2019

Jewels of Automata: from Mathematics to Applications (AutoMathA), Leipzig, 2015

Languages and Automata, Theory and Applications (LATA), San Sebastian, 2013.

Groups and Topological Groups, Leipzig, 2013.

Languages and Automata, Theory and Applications (LATA), A Coruña, 2012.

Theory and Practice of Natural Computing, Tarragona 2012

Languages and Automata, Theory and Applications (LATA), Tarragona, 2011.

International Work-Conference on Linguistics, Biology and Computer Science: Interplays, Tarragona, 2010

Developments in Language Theory (DLT), Kyoto, 2008

Automata, Formal Languages and Algebraic Systems (AFLAS), Kyoto, 2008

Work in Organizing Committees of Schools

Winter School on Big Data, Tarragona, 2015.

Winter School in Language and Speech Technologies, Tarragona, 2012.

Spring School in Language and Speech Technologies, Tarragona, 2012.

Summer School in Methods in Bioinformatics, Tarragona, 2012.

Fall School in Formal Languages and Applications, Tarragona, 2011.

Spring School in Formal Languages and Applications, Tarragona, 2011.

Work in Doctoral Defense Committees

Anthonath Roslin Sagaya Mary, Rovira i Virgili University, Tarragona, 2016 (substitute member)

Catalin Ionut Tirnauca, Rovira i Virgili University, Tarragona, 2016

Gabriela Susana Martín Torres, Rovira i Virgili University, Tarragona, 2016 (substitute member)

Adrian Horia Dediu, Rovira i Virgili University, Tarragona, 2015

Alexander Krassovitskiy, Rovira i Virgili University, Tarragona, 2011

Robert Mercas, Rovira i Virgili University, Tarragona, 2010 (substitute member)

Membership

Computability in Europe (CiE)

Gesellschaft für Informatik (GI) - Fachgruppe Automaten und Formale Sprachen

Other Activities Worth Being Mentioned

1993 Member of the Texas State Champion Team in Number Sense

1995/1996	One year service in the Luftwaffe, FlaRakGrp 21, Manching
Aug/Sep 2000	Internship with Cerner Software Corporation, Kansas City, USA
1998-2001	Three years member of the Board of Informatics Students, one year as speaker
1999-2001	Two years member of the Faculty Council of the Faculty of Mathematics and Informatics
2000-2002	Two years member of the Student Parliament of the FSU, three semesters as president
2001/2002	One year speaker of the Conference of Thuringian Students
2001/2002	One year student member of the Board of the Thüringen State Conference of Universities
2007–2010	Author for the newspapers <i>La Directa</i> , <i>Catalunya</i> and <i>Paraules per la Pau</i> (all in Catalan language)
2019	Independent candidate on the list of <i>Candidatura d'Unitat Pop- ular</i> in the Municipal Elections for Creixell, Catalonia
1995–now	More than 30 marathons and similar races
2008–2017	Internet administrator for the consumer cooperative <i>El Ginjol</i> (Perl, data base)

Hobbies

- Running
- Triathlon
- Mountaineering
- Politics

Languages

- German, English (fluent)
- Catalan, Spanish (good)
- Japanese, Latin (basic knowledge)

Supervision

Master's Thesis Erik Paul: *Weighted Tree Automata and Quantitative Logics with a Focus on Ambiguity*. University of Leipzig. (together with Manfred Droste)

Teaching Experience

2022 Tutorial for the lecture *Database Theory and Modeling*. Universität Bremen, 4h/week.

2021/22 Lecture *Search Technologies for Media and Web*. Universität Bremen, 2h lecture, 2h practice/week.

2021 Tutorial for the lecture *Database Theory and Modeling*. Universität Bremen, 4h/week.

2020/21 Lecture *Search Technologies for Media and Web*. Universität Bremen, 2h lecture, 2h practice/week.

2020 Practice for the lecture *Theoretical Informatics 2: Computability and Complexity*. Universität Bremen, 4h/week.

2019/2020 Practice for the lecture *Theoretical Informatics 1: Finite Automata and Formal Languages*. Universität Bremen, 4h/week.

2014/2015 Practice for the lecture *Automata Theory*. Universität Leipzig, 2h/week.

2014/2015 Practice for the lecture *Discrete Structures*. Universität Leipzig, 2h/week.

2014 Seminar *Berechenbarkeit des menschlichen Denkens (Computability of Human Thought)*. Universität Leipzig, 3h/week.

2014 Lecture *Stringologie (Stringology)*. Universität Leipzig, 3h/week.

2013/14 Practice for the lecture *Automata Theory*. Universität Leipzig, 4h/week.

2013 Practice for the lecture *Automata Theory*. Universität Leipzig, 2h/week.

2010/2011 Lecture *Stringologie (Stringology)*. Universität Kassel, 4h/week.

2009/2010 Lecture *Biochemisch Inspirierte Berechnungen (Biochemically Inspired Computations)*. Universität Kassel, 4h/week.

2006 Introductory course *Discrete Mathematics and Logics* for the PhD School *Formal Languages and Applications*, Universitat Rovira i Virgili, Tarragona, 3 days (with A. Alhazov and R. Loos).

2005 Introductory course *Discrete Mathematics and Logics* for the PhD School *Formal Languages and Applications*, Universitat Rovira i Virgili, Tarragona, 3 days (with A. Alhazov).

Teaching Training

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| 4 2013 | Course "Visualization of Content" at the University Didactics Center of the University of Leipzig |
| 3 2013 | Course "Handling Critical Counseling Situations" at the University Didactics Center of the University of Leipzig |
| 5/6 2010 | Course "Teaching with Activating Methods" at the Service Center Teaching of the University of Kassel |
| 4/5 2010 | Course "Voice and Speech Training for Teaching" at the Service Center Teaching of the University of Kassel |

Scientific Publications

Books

- [1] P. LEUPOLD: *One-Directional Non-Counting Languages: The Anti-Symmetric Case of Brzozowski's Problem*. VDM Verlag, Saarbrücken, 2009, 116 pages.
Based on parts of the doctoral dissertation [61].

Journals

- [2] P. LEUPOLD: *On the Unavoidability of Primitive Words and other Languages*. In: *Journal of Automata, Languages and Combinatorics* 26(1–2), 2021, pp. 91–107.
- [3] P. LEUPOLD: *The Role of Observers in Computations - How Much Computation Does it Take to Recognize a Computation?*. In: *Minds and Machines* 28(3), 2018, pp. 427–444.
- [4] P. LEUPOLD: *General Idempotency Languages over Small Alphabets*. In: *International Journal of Foundations of Computer Science* 27(3), 2016, pp. 343–358.
- [5] N. HUNDESHAGEN and P. LEUPOLD: *Transducing by observing length-reducing and painter rules*. In: *RAIRO Informatique Théorique* 48(1), 2014, pp. 85–105.
- [6] S. FAZEKAS, P. LEUPOLD and K. SHIKISHIMA-TSUJI: *On Non-Primitive Palindromic Context-Free Languages*. In: *International Journal of Foundations of Computer Science* 23 (6), 2012, pp. 1277–1290.
- [7] P. LEUPOLD and F. OTTO: *On McNaughton Families of Languages That Are Specified by Some Variants of Monadic String-Rewriting Systems*. In: *Fundamenta Informaticae* 112, 2011, pp. 219–238.
- [8] M. ITO, P. LEUPOLD, F. MANEA and V. MITRANA: *Bounded Hairpin Completion*. In: *Information and Computation* 209, 2011, pp. 471–485.
- [9] M. CAVALIERE and P. LEUPOLD: *Computing by Observing: Simple Systems and Simple Observers*. In: *Theoretical Computer Science* 412(1-2), 2011, pp. 113–123.
- [10] P. LEUPOLD and B. NAGY: *5' → 3' Watson-Crick Automata With Several Runs*. In: *Fundamenta Informaticae* 104(1-2), 2010, pp. 71–91.
- [11] P. LEUPOLD F. MANEA and R. LOOS: *Complexity Aspects of the Recognition of Context-Free Languages by AHNEPs*. In: *Romanian Journal of Information Science and Technology* 12, 2009, 219–233.
- [12] M. CAVALIERE, N. JONOSKA, and P. LEUPOLD: *DNA splicing: computing by observing*. In: *Natural Computing* 9 (1), 2009, pp. 157–170.
- [13] P. LEUPOLD and V. MITRANA: *Uniformly Bounded Duplication Codes*. In: *RAIRO Informatique Théorique* 41 (4), 2007, pp. 411–424.

- [14] P. LEUPOLD: *Languages Generated by Iterated Idempotencies*. In: Theoretical Computer Science 370(1-3), 2007, pp. 170–185.
- [15] M. CAVALIERE and P. LEUPOLD: *Observation of String-Rewriting Systems*. In: Fundamenta Informaticae 74(4), 2006, pp. 447–462.
- [16] P. LEUPOLD, C. MARTÍN VIDE and V. MITRANA: *Uniformly Bounded Duplication Languages*. In: Discrete Applied Mathematics Vol 146, Iss 3, 2005, pp. 301–310.
- [17] J. CASTELLANOS, P. LEUPOLD, and V. MITRANA: *On the Size Complexity of Hybrid Networks of Evolutionary Processors*. In: Theoretical Computer Science 330, 2005, pp. 205–220.
- [18] P. LEUPOLD: *Languages of Partial Words - How to Obtain Them and What Properties They Have*. In: Grammars, Vol 7, 2004, pp. 179–192.
- [19] M. CAVALIERE and P. LEUPOLD: *Evolution and Observation — A Non-Standard Way to Generate Formal Languages*. In: Theoretical Computer Science 321, 2004, pp. 233–248.

Refereed Conference Proceedings and Other Volumes

- [20] P. LEUPOLD and S. MANETH: *Deciding Top-Down Determinism of Regular Tree Languages*. In: Fundamentals of Computation Theory - 23rd International Symposium, FCT 2021, Athens, 2021, Proceedings, Lecture Notes in Computer Science 12867, Springer, Berlin, 2021, pp. 341–353.
- [21] P. LEUPOLD: *Computing by observing reductions in partial orders*. In: Proceedings of Workshop on Non-Classical Models of Automata and Applications, NCMA 2019, Österreichische Computer Gesellschaft 2019, ISBN 978-3-903035-25-6, Graz, 2019, pp. 125–138.
- [22] N. HUNDESHAGEN and P. LEUPOLD: *Computing by Observing Insertion*. In: Proceedings of Languages, Automata Theory and Applications 2015, Lecture Notes in Computer Science 8977, Springer, Berlin, 2015, pp. 727–738.
- [23] P. LEUPOLD: *Reducing Repetitions*. In: Proceedings of Prague Stringology Days, Prague, 2014, pp. 192–201.
- [24] P. LEUPOLD: *What is the Role of the Observer in a Computation?* In: Proceedings of 7th AISB Symposium on Computing and Philosophy, London 2014.
- [25] A. KRASSOVITSKIY and P. LEUPOLD: *Computing by Observing Insertion*. In: Proceedings of Languages, Automata Theory and Applications 2012, Lecture Notes in Computer Science 7183, Springer, Berlin, 2012, pp. 377–388.
- [26] N. HUNDESHAGEN and P. LEUPOLD: *Transducing by Observing and Restarting Transducers*. In: Proceedings of Fourth Workshop on Non-Classical Models for Automata and Applications — NCMA 2012, Series *books@ocg.at* 290, Austrian Computer Society, Graz, 2012, pp. 93–106.
- [27] P. LEUPOLD: *Computing by Observing Change in Insertion/Deletion Systems*. In: Proceedings of Fourth Workshop on Non-Classical Models for Automata and Applications — NCMA 2012, Series *books@ocg.at* 290, Austrian Computer Society, Graz, 2012, pp. 123–132.

- [28] S. FAZEKAS, P. LEUPOLD and K. SHIKISHIMA-TSUJI: *Avoidability of Primitive Palindromes*. In: Automata and Formal Languages, 13th Intl. Conf, Proceedings. College of Nyíregyháza, 2011, pp. 184–196.
- [29] P. LEUPOLD and F. OTTO: *On McNaughton Families of Languages Specified by Certain Variants of Monadic String-Rewriting Systems*. In: Workshop on Non-Classical Models for Automata and Applications - NCMA 2010, Series *books@ocg.at* (263), Austrian Computer Society, Graz, 2010, pp. 113–126.
- [30] N. HUNDESHAGEN and P. LEUPOLD: *Transducing by Observing*. In: Workshop on Non-Classical Models for Automata and Applications - NCMA 2010, Series *books@ocg.at* (263), Austrian Computer Society, Graz, 2010, pp. 85–98.
- [31] P. LEUPOLD and A. MEDUNA: *Finitely Expandable Deep PDAs*. In: M. Ito, Y. Kobayashi, K. Shoji: Automata, Formal Languages and Algebraic Systems 2008, World Scientific, London, 2010, pp. 113–124.
- [32] P. LEUPOLD: *Primitive Words are Unavoidable for Context-free Languages*. In: Proceedings of Languages, Automata Theory and Applications 2010, Lecture Notes in Computer Science 6031, Springer, Berlin, 2010, pp. 403–413.
- [33] M. CAVALIERE and P. LEUPOLD: *Computing by Observing Change*. In: Proceedings of 4th International Workshop on Natural Computing, Springer, Tokyo 2010, pp. 133–140.
- [34] P. LEUPOLD: *Reducing Repetitions*. In: Proceedings of Prague Stringology Days, Prague, 2009, pp. 225–236.
- [35] P. LEUPOLD and B. NAGY: *m -run $5' \rightarrow 3'$ Watson-Crick automata*. In: Workshop on Non-Classical Models for Automata and Applications - NCMA 2009, Series *books@ocg.at* (256), Austrian Computer Society, Graz, 2009, pp. 167–180.
- [36] M. ITO, P. LEUPOLD, and V. MITRANA: *Bounded Hairpin Completion*. In: Proceedings of Languages, Automata Theory and Applications 2009, Lecture Notes in Computer Science 5457, Springer, Berlin, 2009, pp. 434–445.
- [37] P. LEUPOLD and A. MEDUNA: *Finitely Expandable Deep Push-Down Automata*. In: Masami Ito, Yuji Kobayashi and Kunitaka Shoji (eds.): *Automata, Formal Languages and Algebraic Systems*, World Scientific, Singapore, 2009, pp. 31–41.
- [38] P. LEUPOLD: *How to Pop a Deep PDA Matters*. In: Automata and Formal Languages, 12th International Conference AFL, Proceedings, ISBN 978-963-311-367-7, Győr, 2008.
- [39] P. LEUPOLD: *On Regularity Preservation by String-Rewriting Systems*. Proceedings of Languages, Automata Theory and Applications 2008, Lecture Notes in Computer Science 5196, Springer, Berlin, 2008, pp. 345–356.
- [40] P. LEUPOLD: *Duplication Roots*. In: Developments in Language Theory 2007, Lecture Notes in Computer Science 4588, Springer, Berlin, 2007, pp. 290–299.
- [41] M. ITO, P. LEUPOLD, and K. SHIKISHIMA-TSUJI: *Closure of Language Classes under Bounded Duplication*. In: Developments in Language Theory

2006, Lecture Notes in Computer Science 4036, Springer, Berlin, 2006, pp. 238–247.

- [42] M. CAVALIERE, N. JONOSKA, and P. LEUPOLD: *DNA Splicing: Computing by Observing*. In: DNA 11, Lecture Notes in Computer Science 3354, Springer, Berlin, 2005, pp. 152–162.
- [43] P. LEUPOLD: *Partial Words for DNA Coding*. In: DNA 10, Lecture Notes in Computer Science 3384, Springer, Berlin, 2005, pp. 224–234.
- [44] P. LEUPOLD: *n-Bounded Duplication Codes*. Proceedings of the ICALP-Workshop on Words, Avoidability, Complexity, Turku 2004. Technical Report 2004-07, Laboratoire de Recherche en Informatique d’Amiens, Amiens 2004.
- [45] M. CAVALIERE and P. LEUPOLD: *Evolution and Observation — A Non-Standard Way to Accept Formal Languages*. In: MCU 2004, Lecture Notes in Computer Science 3354, Springer-Verlag, Berlin, 2005, pp. 152–162.
- [46] P. LEUPOLD, V. MITRANA and J. SEMPERE: *Formal Languages Arising from Gene Repeated Duplication*. In: Aspects of Molecular Computing. Essays Dedicated to Tom Head on the Occasion of his 70th Birthday. LNCS 2950, Springer Verlag, Berlin, 2004, pp. 297–308.
- [47] M. CAVALIERE and P. LEUPOLD: *Evolution and Observation – A New Way to Look at Membrane Systems*. In: Membrane Computing, International Workshop, WMC 2003, Revised Papers. Lecture Notes in Computer Science 2933, Springer-Verlag, Berlin, 2004, pp. 70–87.
- [48] P. LEUPOLD: *Some Properties of Context-Free Languages Related to Primitive Words*. In: Preproceedings of WORDS’03, TUCS General Publications, Turku, 2003.
- [49] S. HORVÁTH, P. LEUPOLD and G. LISCHKE: *Roots and Powers of Regular Languages*. In: Developments in Language Theory 2002, Lecture Notes in Computer Science 2450, Springer-Verlag, Berlin, 2002, pp. 220–230.

Invited Conference Lectures

- [50] P. LEUPOLD: *Is Computation Observer-Relative?* NCMA, Kassel, 2014.
- [51] P. LEUPOLD: *Is there Computation without Observation?*. CiE Satellite Workshop *New Computing Paradigms*, Budapest, 2014.
- [52] P. LEUPOLD: Beobachtersysteme. Theorietag Formale Sprachen, Kassel, September 2010.
- [53] P. LEUPOLD: *How to make Biological Systems Compute: Simply Observe Them*. In: 2nd Workshop on Computing and Communications from Biological Systems: Theory and Applications, Hyogo, 2008, The ACM Digital Library, pp. 1–6.
- [54] M. CAVALIERE and P. LEUPOLD: *Complexity through the Observation of Simple Systems*. International Workshop on The Complexity of Simple Programs. Cork University Press, Cork, 2008, pp. 23–34.

Other Conference Proceedings and Volumes

- [55] P. LEUPOLD: *Deletion of Squares in Suffix Arrays*. Proceedings Workshop Algebraic Systems and Theoretical Computer Science, Research Institute for Mathematical Sciences, Kyoto, Kokyuruko Series, 2012.
- [56] P. LEUPOLD: *Efficient Reduction of Square Factors in Strings*. Proceedings LA Symposium, Research Institute for Mathematical Sciences, Kyoto, Kokyuruko Series, 2012.
- [57] P. LEUPOLD: *Reducing Repetitions*. Proceedings Workshop Algorithmic and Computational Theory in Algebra and Languages, Research Institute for Mathematical Sciences, Kyoto, Kokyuruko Series, 2011.
- [58] P. LEUPOLD and A. MEDUNA: *Finitely Expandable Deep PDAs*. Automata, Formal Languages and Algebraic Systems, Proceedings in CD-ROM, Kyoto, 2008.
- [59] P. LEUPOLD: *Regularity Preservation by String-Rewriting Systems Based on Periods*. Proceedings Workshop Algorithmic and Computational Theory in Algebra and Languages, Research Institute for Mathematical Sciences, Kyoto, Kokyuruko Series, 2008.
- [60] P. LEUPOLD: *Duplication Roots – Extended Abstract*. In: Proceedings Theoretischer Automaten und Formale Sprachen, TU Wien, Wien, 2006, pp. 91–93.

Academic Theses

- [61] P. LEUPOLD: *Languages Generated by Iterated Idempotencies*. Dissertation, Universitat Rovira i Virgili, Tarragona, 2006.
- [62] P. LEUPOLD: *Potenzen von Sprachen*. Diplomarbeit, Friedrich-Schiller-Universität Jena, 2002.
- [63] P. LEUPOLD: *Primitive Wörter*. Studienarbeit, Friedrich-Schiller-Universität Jena, 2001.

Others

- [64] P. LEUPOLD: Sequence A160675, Cardinalities of Duplication Roots. In: N. J. A. Sloane : The On-Line Encyclopedia of Integer Sequences. <http://oeis.org/A160675>, 2009.

References

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