

CURRICULUM VITAE

Name: Dr. Tomasz Müldner

PERSONAL INFORMATION

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SUMMARY

Publications :

- o 23 articles in refereed journals, 58 articles in refereed conference proceedings, four books and four poster presentations
- o Since my retirement from Acadia University in 2010, three articles in the refereed journal and eight articles in refereed conference proceedings
- o An extended version of the paper "Parallelization of Permuting Schema-less XML Compressors", listed as [P4] in the publication list, has recently appeared in Springer-Verlag
- o An extended version of the paper "Annotated Trees and their Applications to XML Compression", listed as [P2] in the publication list, has recently been accepted for publication at Springer-Verlag ([A1])
- o An extended version of the paper "Online Internet Communication Using an XML Compressor", listed as [P6] in the publication list, has recently appeared in Springer-Verlag ([A3])

Supervisions and joint publications with students:

- o Since my arrival at Acadia University in 1982, 43 honours students and 19 Masters students completed their studies under my supervision
- o Since my retirement from Acadia University in 2010, one honours student and one Master student completed their studies under my co-supervision
- o Currently, I am co-supervising two Master students
- o Seven refereed journal articles and 37 articles in refereed conference proceedings were co-authored by students
- o Since my retirement from Acadia University in 2010, three articles in a refereed

journal co-authored by a student and eight articles in refereed conference proceedings co-authored by students

- Two **Best paper awards** have recently been given for articles in refereed conference proceedings (both co-authored by students)

EDUCATION

- 1975 Ph.D. Mathematics, Mathematical Institute, Polish Academy of Sciences, Warsaw, Poland
- 1969 M. Sc. Mathematics, Mathematical Institute, Warsaw University, Warsaw, Poland

EMPLOYMENT HISTORY

- June 2010 –, Adjunct Professor, Jodrey School of Computer Science, Acadia University, Wolfville, Nova Scotia
- June 2012 –, Professor Emeritus, Jodrey School of Computer Science, Acadia University, Wolfville, Nova Scotia
- July 1, 2005 – December 31, 2005, Acting Co-Director, Jodrey School of Computer Science, Acadia University, Wolfville, Nova Scotia
- July 1991 – 92, Acting Director, Jodrey School of Computer Science, Acadia University, Wolfville, Nova Scotia
- July 1990 – June 2010, Professor, Jodrey School of Computer Science, Acadia University, Wolfville, Nova Scotia
- January 1982 – June 90, Associate Professor, Jodrey School of Computer Science, Acadia University, Wolfville, Nova Scotia
- July 1988 – June 89, Associate Visiting Professor, Computer Science Department, The University of Western Ontario, London, Ont. (while on sabbatical from Acadia University)
- Fall 1986, Tenure position, Jodrey School of Computer Science, Acadia University, Wolfville, Nova Scotia
- Fall 1984, Renewal of tenure-track position, Jodrey School of Computer Science, Acadia University, Wolfville, Nova Scotia
- January 1982, Tenure-track position, Jodrey School of Computer Science, Acadia University, Wolfville, Nova Scotia
- November – December 1981, Lektor, Department of Computer Science, Aarhus University, Aarhus, Denmark
- July 1975 – October 1981, Associate Research Professor, Institute of Computing Machines, Warsaw, Poland
- January 1974 – June 1975, Assistant Research Professor, Institute of Computing Machines, Warsaw, Poland
- January 1973 – Dec. 1973, Research Associate, Mathematical Institute, Polish

Academy of Sciences, Warsaw, Poland

- October 1969 – December 1972, Research Associate, Mathematical Institute, Warsaw University, Warsaw, Poland

———— HONOURS, AWARDS AND GRANTS

- Zenith Data Systems; Masters of Innovation, 1992 Competition. First place in the Category of Engineering and Computer Science for: "HyperC - Hypertext CBT System for Learning the C Programming Language".
- Grant from DAAD - German Academic Exchange Program, to visit Hagen University, Germany. Summer 1992.
- Grant from Teaching Innovation Fund, Acadia University (three times): Computer Based teaching (with T. Archibald and P. Williams). 1993. A System for Explaining Algorithms (with E. Shakshuki and H. Moussa): 2005 and 2006
- NSERC Research Grant: RGPIN 2004-2009 and 2009-2014 (current): 5 years/ \$15,000 year
- Professor of the Year, selected by students of Computer Science. Six times; 1983, 1990, 1991, 1994, 1996, 2010.
- Acadia Alumni Excellence in Teaching Award, Fall 1996.

———— CONTINUING EDUCATION AT ACADIA UNIVERSITY

Since my retirement in 2010, I have been teaching the following courses through Open Acadia:

- COMP 2103 NT
- COMP 2113 NT
- COMP 3703 NT
- COMP 3773 NT
- MATH 1413 N1

———— PROFESSIONAL SERVICE

Current Memberships in Program Committees for International Conferences:

- The Third International Conference on Informatics Engineering and Information Science: ICIEIS2014
- IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN 2014)
- Web Information Systems and Technologies WEBIST 2014

RESEARCH INTEREST

Current research interests include:

- o XML compression
- o XML encryption

PUBLICATIONS

Names of students in the publication list appear in **bold face**.

References

Articles in Journal Papers

- [A1] T. Müldner, J.K. Miziołek, and **T. Corbin**. "Permutation Based XML Compression". In: *to appear in: Lecture Notes in Business Information Processing* (2015). Ed. by Karl-Heinz Krempels and Alexander Stocker.
- [A2] **T. Corbin**, T. Müldner, and J.K. Miziołek. "Networked XML Compression by Encoding Pre-Order Traversals". In: *Lecture Notes in Business Information Processing* (2014). Ed. by Karl-Heinz Krempels and Alexander Stocker.
- [A3] T. Müldner, **T. Corbin**, and J.K. Miziołek. "Design and Implementation of the Online XML Compressor for Large XML Files". In: *International Journal On Advances in Internet Technology* 5.3&4 (2012), pp. 141 –161. ISSN: 1942-2652.
- [A4] T. Müldner, **G. Leighton**, and J.K. Miziołek. "Parameterized Role-Based Access Control Policies for XML Documents". In: *Information Security Journal: A Global Perspective* 18.6 (2009), pp. 282–296.
- [A5] T. Müldner, **G. Leighton**, and J.K. Miziołek. "Schema-level access control policies for XML documents". In: *International Journal of Web Information Systems* 5.4 (2009), pp. 465–494.
- [A6] T. Müldner, E. Shakshuki, and A. Kerren. "Algorithm Education Using Structured Hypermedia". In: *Strategic Applications of Distance Learning Technologies, Idea Group Inc* (2008), pp. 58–84.
- [A7] E. Shakshuki, A. Kerren, and T. Müldner. "Web-based Structured Hypermedia Algorithm Explanation system, cited in 8 papers". In: *IJWIS* 3.3 (2007), pp. 179–197.

- [A8] T. Müldner and E. Shakshuki. "Explaining Algorithms: A New Perspective". In: *IJDET* 4.3 (2006), pp. 6–23.
- [A9] G. Leighton and T. Müldner. "Applying peer-to-peer technology to the building of distributed educational systems, (Invited submission)". In: *Journal of Interactive Learning Research* 16.3 (2005), pp. 295–315.
- [A10] I. Tomek and T. Müldner. "Acadia Advantage - Evolution and Experiences". In: *Interactive Learning Environments* 7.2-3 (1999), pp. 175–194.
- [A11] M. Iglewski and T. Müldner. "Comparison of Formal Specification Methods and Object-oriented Paradigms". In: *J. Netw. Comput. Appl.* 20.4 (Oct. 1997), pp. 355–377. ISSN: 1084-8045. DOI: 10.1006/jnca.1997.0050. URL: <http://dx.doi.org/10.1006/jnca.1997.0050>.
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- [A14] I. Tomek et al. "Hypermedia—Introduction and Survey, cited in 50 papers". In: *J. Microcomput. Appl.* 14.2 (June 1991), pp. 63–103. ISSN: 0745-7138. DOI: 10.1016/0745-7138(91)90002-9. URL: [http://dx.doi.org/10.1016/0745-7138\(91\)90002-9](http://dx.doi.org/10.1016/0745-7138(91)90002-9).
- [A15] R. Janicki and T. Müldner. "Transformations of Sequential Specifications into Concurrent Specifications by Synchronization Guards". In: *Theor. Comput. Sci.* 77.1-2 (May 1989), pp. 97–129. ISSN: 0304-3975. DOI: 10.1016/0304-3975(90)90117-Z. URL: [http://dx.doi.org/10.1016/0304-3975\(90\)90117-Z](http://dx.doi.org/10.1016/0304-3975(90)90117-Z).
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- [A18] I. Tomek, T. Müldner, and S. Khan. "PMS, program to make learning Pascal easier". In: *Computers & Education* 9.4 (1985), pp. 205–211.

- [A19] T. Müldner. "Implementation and properties of certain tools for parallel computations". In: *Fundam. Inform.* 4.2 (1981), pp. 255–276.
- [A20] T. Müldner. "On the compilation of parallel programs". In: *Fundam. Inform.* 4.2 (1981), pp. 207–244.
- [A21] T. Müldner. "On the semantics of parallel programs". In: *Fundam. Inform.* 4.1 (1981), pp. 35–82.
- [A22] T. Müldner. "On the synchronizing tools for parallel programs". In: *Fundam. Inform.* 4.1 (1981), pp. 95–134.
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Strictly Refereed Conference Papers

- [P1] T. Corbin, T. Müldner, and J.K. Miziołek. "Column-Oriented Database Systems and XML Compression". In: *3rd International Conference on Data Management Technologies and Applications (DATA)*. DATA. Vienna, Austria, 2014.
- [P2] T. Müldner, J.K. Miziołek, and **T. Corbin**. "Annotated Trees and their Applications to XML Compression". In: *WEBIST 2014 - Proceedings of the 9th International Conference on Web Information Systems and Technologies, Barcelona, Spain, 2-5 April, 2014*. <http://www.scitepress.org/DigitalLibrary>, 2014, pp. 27–39.
- [P3] T. Müldner et al. "Succinct Role Based Access Control Policies for XML Documents". In: *The Third International Conference on Informatics Engineering and Information Science (ICIEIS2014), Lodz, Poland, 22-24 September, 2014*. 2014, pp. 1–18.
- [P4] **T. Corbin**, T. Müldner, and J. K. Miziołek. "Parallelization of Permuting Schema-less XML Compressors". In: *Proceedings of the 10th International Conference on Parallel Processing and Applied Mathematics*. PPAM'13. 2013.
- [P5] **T. Corbin**, T. Müldner, and J.K. Miziołek. "Pre-order Compression Schemes for XML in the Real Time Environment; **Best paper award**, acceptance rate 19%". In: *WEBIST 2013 - Proceedings of the 9th International Conference on Web Information Systems and Technologies, Aachen, Germany, 8-10 May, 2013*. Ed. by Karl-Heinz Krempels and Alexander Stocker. SciTePress, 2013, pp. 5–15.

- [P6] T. Müldner, J.K. Miziołek, and C.Fry. "Online Internet Communication Using an XML Compressor, **Best paper award**". In: *ICIW 2012, The Seventh International Conference on Internet and Web Applications and Services*. Stuttgart, Germany, 2012, pp. 131–136. ISBN: 978-1-61208-200-4.
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- [P15] T. Müldner, G.Leighton, and J.K Miziołek. "Using multi-encryption to provide secure and controlled access to XML documents". In: *Extreme Markup Languages*. 2006.
- [P16] T. Müldner, Z.Shen, and L.BoYa. "Using COCOON to build Globalized Webpages". In: *Proceedings of the IADIS WWW/Internet Conference, Murcia, Spain*. Ed. by Pedro IsaŠas Miguel Baptista Nunes and Inmaculada J. MartŠnez. 2006, pp. 227–235. ISBN: 972-8924-19-4.
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- [P18] T. Müldner, G.Leighton, and J. Diamond. "Using XML compression for WWW communication, cited in 12 papers, acceptance rate 22 %". In: *Proceedings of the International Association for Developement of the Information Society (IADIS) International Conference WWW/Internet (ICWI 2005)*. 2005, pp. 459–466. ISBN: 972-8924-02-X.
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- [P23] T. Müldner et al. "Using Structured Hypermedia to Explain Algorithms, cited in 14 papers". In: *Proceedings of the 3rd IADIS International Conference e-Society*. Vol. 5. 2005, pp. 499–503.
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- [P33] R. Wilhelm and T. Müldner. "Using Compile-time Techniques to Generate and Visualize Invariants for Algorithm Explanation". In: *Second Program Visualization Workshop: HornstrupCentret, Denmark, June 27-28, 2002*. 2002.
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Books

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