

School of Electrical Engineering and Computer Science

July 2017

CURRICULUM VITAE

- a) NAME: EMPLOYEE NO.
LETHBRIDGE, Timothy C., Full Professor, P.Eng, I.S.P 080354
- b) DEGREES:
 Ph.D. Computer Science, University of Ottawa, 1994
 M.Sc.(CS), University of New Brunswick, 1987
 B.Sc.(CS), University of New Brunswick, 1985
- c) EMPLOYMENT HISTORY:
 2010-17 and 19-23 Vice-Dean (Governance), Faculty Secretary and Member of Senate, Faculty of Engineering, University of Ottawa
 2005- Full Professor, School of Electrical Engineering and Computer Science, University of Ottawa
 2005 Acting Associate Dean (Academic Affairs), Faculty of Engineering, University of Ottawa (12 month appointment)
 2001-05 Associate Professor, School of Information Technology and Engineering, University of Ottawa
 1997-01 Assistant Professor (tenure track), *ibid.*
 1994-97 Assistant Professor (non tenure-track) Department of Computer Science, University of Ottawa
 1990-95 Consultant: Various research contracts
 1987-89 Member of Scientific Staff, Bell-Northern Research
 1986 Sessional Lecturer, Computer Science, University of New Brunswick
 1982-85 Province of New Brunswick, Data Processing Division, Programmer and Programmer-analyst (full-time co-op and part-time)
- d) HONOURS:
 2016 [IEEE Computer Society TCSE Outstanding Educator Award](#)
 2010 Gary Hadford Professional Achievement Award, Canadian Information Processing Society, “[to] CIPS members ... recognized by their peers for their integrity, high degree of competence, and outstanding achievements in fields related to information technology.”
 2010 Cascon High Impact Paper Award for one of best 14 out of 425 papers published in the first decade of Cascon, for C16. Singer, J., Lethbridge, T.C., Vinson, N, and Anquetil, N (1997) "An Examination of Software Engineering Work Practices",
 2009 WCRE Award for Best Paper from 10 years before for C22. Anquetil, N., and Lethbridge, T.C. (1999), “Experiments with Clustering as a Software Remodularization Method”, Working Conference on Reverse Engineering, pp 235-255

- 2006 Outstanding Contribution Award, IEEE, For contributions to the development of SE-2004
- 2004 The Mather Premium: £500 prize given once a year for a paper published in an IEE Journal on computing. For J11. Anquetil, N., and Lethbridge, T.C. (2003), "A Comparative Study of Clustering Algorithms and Abstract Representations for Software Remodularization", IEE Proceedings - Software, pp. 185-201
- 2001 Senior member IEEE.

e) **SCHOLARLY AND PROFESSIONAL ACTIVITIES:** past 7 years only

- Ongoing Senior Member of IEEE, Member of IEEE Computer Society, Member of ACM, Member of CIPS
- 2013- General Chair for 2015, IEEE/ACM Models Conference, and member of the Steering committee
- 2010-17 Member, Senate, University of Ottawa
- 2013-17 Member, Senate Executive, University of Ottawa
- 2009-17 Member, Council on Undergraduate Studies, University of Ottawa
- 2008- Professional Engineer, Ontario (Software Engineering)
- 2008-14 Chair, Computer Science Accreditation Council (CSAC), Canadian Information Processing Society (CIPS)
- 2008-09 Chair, Collective Bargaining Committee, APUO
- 2008- Teaching Evaluator for formal Teaching Evaluations, University of Ottawa
- 2007-10 Program coordinator, Software Engineering Program, University of Ottawa
- 2007-14 Member of the program committee, International Conference on Program Comprehension
- 2007-10 Member, FTFC, Faculty of Engineering, University of Ottawa
- 2006- Information Systems Professional (ISP)
- 2005-14 Member of the Board, Computer Science Accreditation Council
- 2005-14 Member of the Committee for the CSDP (Certified Software Development Professional) and the CSDA (Certified Software Development Associate) designations; IEEE Computer Society
- 2005- Program visitor, Computer Science Accreditation Council (CSAC), Canadian Information Processing Society (CIPS).
- 2004-05 Member of Faculty Executive, Faculty of Engineering, University of Ottawa & 09-17
- 2004-10 Chair, Steering Committee, Conference on Software Engineering Education and Training, IEEE Computer Society
- 2003-13 Member of the program committee, MoDELS/UML Conference
- 2002- Member of the program and steering committees, Conference on Software Engineering Education and Training
- 2001- Certified Software Development Professional (CSDP), IEEE Computer Society
- 1999-2010 Member of the board, Association of Professors of the University of Ottawa

- 1997-2000, 2003-05 and 2007-17 Member, Faculty Council, Faculty of Engineering, University of Ottawa
- 1997, 2000, 2002-05, 2007- Member of the program committee, CASCON, IBM Toronto.
- 1996-2005, 2007- Member of Software Engineering Program Committee (School of Information Technology and Engineering, University of Ottawa)
- 1995- Journal Reviewer (12-15/year) : Softw. & Syst. Modeling (Ed. Board 2015-), J. Syst, and Softw., Empirical Softw. Engg., Softw. Practice & Experience, Info. & Softw. Tech., Softw. Quality J., ACM Trans. Comput. Educ., J. Softw. Evolution & Process, IEEE Trans. Educ., IEEE Softw., IEEE Comput., IET Trans Softw. others.

f) GRADUATE SUPERVISIONS:

- Completed: 8 Ph.D, 3 Ph.D. co-supervision,
11 M.Sc. thesis, 4 M.Sc. co-supervision, 3 M.Sc. Projects
- In progress: 7 Ph.D, 1 Ph.D. co-supervision, 1 M.Sc co-supervision

NAMES OF STUDENTS:

PhD Theses (E-Business)

- Robert Weisman, "A unified management framework for knowledge-based enterprises", Sep 2014; Expected Late 2017
- Aliaa Alghamdi, "Agile Enterprise Modeling", Sept 2015; Expected 2019

PhD Theses (OCICS – Computer Science) past 7 years. Bold indicates completion dates

- Abdulaziz Algablan, Thesis topic TBD, Sept 2016 Expected Late 2020
- Sultan Eid Almagthawi, "Generation of Testcases in Model-Oriented Programming", Sep 2013 Expected Late 2017
- Mahmoud Orabi, "Facilitating the Representation of Composite Structure, Active objects, Code Generation, and Software Component Descriptions in the Umple Model-Oriented Programming Language", Jan 2012- **July 2017**
- Ahmed Orabi, "Multi-Modal Technology for User Interface Analysis including Mental State Detection and Eye Tracking Analysis", Jan 2012- **July 2017**
- Hamoud Aljamaan, "Model-Oriented Tracing: Specifying trace cases and tracing for UML associations and state machines", Jan 2010- **November 2015**
- Miguel Garzon, "Umplification: Incremental reverse engineering from source code to model-oriented programs in Umple", Direct transfer from Masters, Sept 2010- **July 2015**
- Omar Bahy Badreldin, "A Manifestation of Model-Code Duality: Facilitating the Representation of State Machines in the Umple Model-Oriented Programming Language", Dec 2007- **March 2012**

- Andrew Forward, “The Convergence of Modeling and Programming: Facilitating the Representation of Attributes and Associations in the Umple Model-Oriented Programming Language”, Sept 2006- **October 2010**

PhD Thesis – (OCIECE – Electrical and Computer Engineering)

- Vahdat Abdelzad, “Promoting Traits into Model-Driven Development”, May 2013 – **July 2017**

PhD Thesis Co-supervisions (OCICS) past 7 years

- Adesina Opeyemi, co-supervised with Stéphane Somé, “Integrating Formal Methods with Model-Driven Engineering”, September 2013, **July 2017**
- Ali Fatolahi, co-supervised with Stéphane Somé, “An Abstract Meta-Model for Model Driven Development of Web Applications Targeting Multiple Platforms”, May 2006 - **August 2012**
- Edna Braun, co-supervised with Daniel Amyot, “Reverse engineering behavioral models by filtering out utilities from execution traces”, Sept 2002 – **September 2013**

Masters Theses (OCICS) past 7 years

- Amid Zakariapour, “Distributed Systems in Umple”, Co-supervised with Gregor Bochmann, Sept 2015- Expected May 2017
- Sultan Eid Almagthawi, “Generation of C++ From the Umple Model-Oriented Programming Technology”, Sept 2010-**Sep2013**
- Jenya Levin, “System Generation for Time and Activity Management Product Lines”, Dept 2008-**Dec 2009**

Masters Theses (Systems Science) past 7 years

- Aliaa Alghamdi (M.Sc. Systems Science), “Extensions to Umple for Interconnected State Machines”, Co-supervised with Gregor Bochmann, Jan 2012 – **Jan 2015**.
- Julian Solano (M.Sc. Systems Science), “Exploring How Model Oriented Programming Can Be Extended to the User Interface Level”, Jan 2008- **March 2010**.

g) GRADUATE COURSES TAUGHT: past 7 years - number of students in parentheses

CSI 5122 F2008 (12), F2010 (16), W2012(20), W2016(22), W2017: “Software Usability”

h) EXTERNAL RESEARCH FUNDING: past 7 years

<i>Year</i>	<i>Source</i>	<i>Type</i>	<i>Amount per year</i>	<i>Purpose</i>
16-21	NSERC	C	\$23,000 per yr	Research
5 yrs	Discovery grant			Principal investigator: self
11-16	ORF and IBM and GM	C	\$50,000 per yr	Research
11-16	NSERC	C	\$29,000 per yr	Research
5 yrs	Discovery grant			Principal investigator: self

09-11	NSERC and Ericsson (CRD)	C/O	\$26450 per yr	Research
				Principal investigator: Michel Dagenais
				The above is my portion; total is \$215104
07-10	IBM	O	\$30,000	Research
06-11	NSERC	C	\$27,800	Research
	5 yrs Discovery grant			Principal investigator: self

i) INTERNAL RESEARCH FUNDING: past 7 years

15-17	Stipend		\$7500/yr	Research
08-14	Stipend		\$2500/yr	Research

j) PUBLICATIONS:

1) Life-time summary

Papers in refereed journals	21
Papers in refereed conference proceedings	113
Refereed chapters in books.....	9
Books authored.....	2
Books edited	2
Major invited contributions	1
Technical Reports.....	10
Papers in non-refereed conference proceedings	7

2) Details for past seven years

Papers in refereed journals (last 7 years only; my graduate students and postdocs indicated in bold)

J21 **Abdelzad, V**, and Lethbridge, T.C. (2015) "Promoting Traits into Model-Driven Development", *Software and Systems Modeling*, <http://rdcu.be/mSAc>

J20 **Forward, A., Badreddin, O.**, Lethbridge, T.C., **Solano, J.**, (2011) "Model-Driven Rapid Prototyping with Umple", *Software Practice and Experience*, 42: pp. 781-797
DOI: 10.1002/spe.1155

J19 **Fatolahi, A.** Somé S. and Lethbridge, T.C. (2011) "A Meta-Model for Model-Driven Web Development", *Int. J. Software and Informatics* 6(2):125~162,
http://www.ijsi.org/ch/reader/view_abstract.aspx?file_no=i117

J18 **Nojournian, M.** and Lethbridge T.C. (2011) "Automatic Conversion of Complex PDF Documents into Multilayer Hypertexts", *Int. J Knowledge and Web Intelligence*, 2, 4, DOI: 10.1504/IJKWI.2011.045165 pp. 292-319.

J17 **Fatolahi, A.** Somé S. and Lethbridge, T.C. (2011) "Model-Driven Web Development for Multiple Platforms", *J. Web Engineering*, Vol 10, No. 2, pp. 109-152.

J16. **Hamou-Lhadj, A.**, Lethbridge, T.C., (2010), "A Metamodel for the Compact but Lossless Exchange of Execution Traces", *Software and Systems Modeling*, Springer, DOI 10.1007/s10270-010-0180-x, 22 pp.

- J15. **Hamou-Lhadj, A.**, Lethbridge, T.C., (2010), “Understanding the Complexity Embedded in Large Routine Call Traces with a Focus on Program Comprehension Tasks”, *IET Software*, 4 (2), pp. 161-177.

Papers submitted to refereed journals

- Alghamdi, A.**, and Lethbridge, T.C. “A Systematic Literature Review on The Comparison and Evaluation of The Top Three Enterprise-Architecture Frameworks”, Submitted to *Information Systems Frontiers*, Springer, April 2017
- Adesina, O.**, Lethbridge, T.C., Somé, S., **Abdelzad, V.**, and **Boaye Belle, A.**, “Improving Formal Analysis of State Machines with Particular Emphasis on And-Cross Transitions”, submitted to *Computer Languages, Systems and Structures*, Elsevier, Feb 2017

Papers in Refereed Conference Proceedings (last 7 years only)

- C113. Agner, Luciane T. W.. and Lethbridge, T.C., (2017) “A Survey of Tool Use in Modeling Education”, *Models 2017*, IEEE, in press.
- C112. Badreddin, O., **Abdelzad, V.**, Lethbridge, T.C., and Elaasar, M., (2016) “fSysML: Foundational Executable SysML for Cyber-Physical System Modeling”, *Gemoc 2016, Models 2016*, France, CEUR 1731, pp. 38-51 http://ceur-ws.org/Vol-1731/paper_3.pdf
- C111. **Adesina, O.**, Somé, S., and Lethbridge, T., (2016) “Modeling State Diagrams with And-Cross Transitions”, *MoDeVVa 2016, Models 2016*, France, CEUR
- C110. Lethbridge, T.C., **Abdelzad, V.**, **Husseini Orabi, M.**, **Husseini Orabi, A.**, **Adesina, O.**, (2016) “Merging Modeling and Programming using Umple”, *ISOLA 2016*, Corfu, Springer LNCS 9953, pp. 187–197.
- C109. **Adesina, O.**, Lethbridge, T., and Somé, S., (2016) “A fully automated approach to discovering non-determinism in state machine diagrams”, *10th Int. Conf. On the Quality of Information and Communications Technology*, Portugal.
- C108. De Castro Lima, E., Resende, A., Lethbridge T.C. (2016), “The Uncomfortable Discrepancies of Software Metric Thresholds and Reference Values in Literature”, *ICSEA 2016*, Rome
- C107. George, A., Lethbridge, T.C., Peyton, L. (2016), “Graduate Attribute Assessment In Software Engineering Program At University Of Ottawa – Continual Improvement Process”, *Canadian Engineering Education Conference*, Halifax NS June.
- C106. **Abdelzad, V.**, Lethbridge, T.C., Hosseini, M. (2016) “The Role of Semiotic Engineering in Software Engineering”, *5th International Workshop on Theory-Oriented Software Engineering*, ICSE 2016, pp. 15-21.
- C105. **Husseini Orabi, A.**, **Husseini Orabi, M.**, Lethbridge, T.C. (2016), “Psychophysiological Observing and Analysis Tool for User Experience”, *SEMotion: 1st International Workshop on Emotion Awareness in Software Engineering*, ICSE 2016, pp. 22-25.

- C104. **Husseini Orabi, M., Husseini Orabi, A.**, Lethbridge, T.C. (2016) “Umple as a component-based language for the development of real-time and embedded applications”, Modelsward 2016, pp. 282-291
- C103. Badreddin, O, Sturm, A, Hamou-Lhadj, A., Lethbridge T.C., Dixon, W., Simmons, R., (2015) “The Effects of Education on Student Perceptions of Modeling in Software Engineering”, HuFaMo Workshop, Models 2015 Ottawa, CEUR, pp 39-46.
- C102. **Aljamaan, H.** Lethbridge T.C., **Garzon, M.** (2015) “UmpleRun: a Dynamic Analysis Tool for Textually Modeled State Machines using Umple”, EXE 2015, CEUR, pp. 16-20.
- C101. **Aljamaan, H.**, Lethbridge T.C. (2015) “MOTL: a Textual Language for Trace Specification of State Machines and Associations”, Cascon 2015, ACM, 101-110.
- C100. **Abdelzad, V.**, Amyot, D., Lethbridge, TC. (2015) “Adding a Textual Syntax to an Existing Graphical Modeling Language: Experience Report with GRL”, 17th International System Design Languages Forum, Springer, LNCS 9369, Oct 2015, pp. 159-174
- C99. **Braun, E.**, Amyot, D., Lethbridge, TC. (2015) “Generating Software Documentation in Use Case Maps from Filtered Execution Traces”, 17th International System Design Languages Forum, Springer, LNCS 9369, Oct 2015, pp 177-192 (Winner of best paper award)
- C98. **Abdelzad, V.**, Amyot, D., Alwidian, S., Lethbridge, TC, (2015) “A Textual Syntax with Tool Support for the Goal-oriented Requirement Language”, International iStar Workshop, Ottawa, Canada, CEUR 978, August 2015, pp. 61-66
- C97. **Garzon, M., Aljamaan, H.**, Lethbridge, T., (2015) “Umple: A Framework for Model Driven Development of Object-Oriented Systems”, 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER), pp 494-498
- C96. **Abdelzad, V., Aljamaan, H., Adesina, O., Garzon, M.**, Lethbridge, T., (2014) “A Model-Driven Solution for Financial Data Representation Expressed in FIXML”, Proc, Transformation Tool Contest 2014, York, UK, CEUR 1305
- C95. Lethbridge, T., (2014) “Umple: An Open-Source Tool for Easy-To-Use Modeling, Analysis, and Code Generation”, Models 2014 Demonstrations Track, Valencia Spain, CEUR, <http://ceur-ws.org/Vol-1255/paper6.pdf>
- C93. **Garzon, M.**, Lethbridge, T.C., **Aljamaan, H.**, and Badreddin, O. (2014) “Reverse Engineering of Object-Oriented Code into Umple using an Incremental and Rule-Based Approach”, Cascon 2014, ACM.
- C92. Badreddin, O., Sturm, A. and Lethbridge, T.C. (2014) “Requirement Traceability: A Model-Based Approach”, Model-Driven Requirements Engineering Workshop, RE 2014, Stockholm, Sweden, IEEE, pp 87-91.

- C91. Lethbridge, T.C. (2014), “Teaching Modeling Using Umple: Principles for the Development of an Effective Tool”, CSEE&T 2014, IEEE Computer Society, Austria, pp 23-28.
- C90. **Badreddin, O.**, Lethbridge, T.C., **Forward, A.** (2014), “Investigation and Evaluation of UML Action Languages”, MODELSWARD 2014, Portugal, INSTICC, pp. 264-273
- C89. **Badreddin, O.**, Lethbridge, T.C. and **Forward, A.** (2014), “A Novel Approach to Versioning and Merging Model and Code Uniformly”, MODELSWARD 2014, Portugal.
- C88. **Badreddin, O.**, Lethbridge, T.C., **Forward, A.**, Elasaar, M. **Aljamaan, H, Garzon, M.** (2014), “Enhanced Code Generation from UML Composite State Machines”, MODELSWARD 2014, Portugal, INSTICC, pp. 235-245
- C87. **Badreddin, O., Forward, A.**, and Lethbridge, T.C. (2014), “A Test-Driven Approach for Developing Software Languages”, MODELSWARD 2014, Portugal, INSTICC, pp. 225-234.
- C86. **Aljamaan, H.**, Lethbridge, T.C., **Badreddin, O., Guest, G., and Forward, A.** (2014), “Specifying Trace Directives for UML Attributes and State Machines”, MODELSWARD 2014, Portugal, INSTICC, pp 79-86
- C85. Lethbridge, T.C. (2013) “Key Properties for Comparing Modeling Languages and Tools: Usability, Completeness and Scalability”, Comparing Modeling Approaches 2013, Miami, FL, CEUR, <http://ceur-ws.org/Vol-1076/paper3.pdf>
- C84. Mussbacher, G. Alam, O., Alhaj, M., Ali, S., Amalio, N., Barn, B., Braek, R., Clark, T., Combarnale, B., Cysneiros, L., Fatima, U., France, R., Georg, G., Horkoff, J., Kienzle, J., Leite, J., Lethbridge, T.C., Luckley, M., Moreira, A., Mutz, F., Oliveira, A., Petriu, D., Schöttle, M., Troup, L and Werneck, V. (2013) “Assessing composition in modeling approaches”, CMA, ACM, DOI 10.1145/2459031.2459032
- C83. **Badreddin, O, Forward, A.,** and Lethbridge, T.C. (2013), “Exploring a Model-Oriented and Executable Syntax for UML Attributes”, SERA 2013, Springer SCI 496, pp. 33-53, DOI:10.1007/978-3-319-00948-3_3
- C82. **Badreddin, O, Forward, A.,** and Lethbridge, T.C. (2013), “Improving Code Generation for Associations: Enforcing Multiplicity Constraints and Ensuring Referential Integrity”, SERA 2013, Prague, Czech Republic, Springer SCI 496, pp. 129-149, DOI: 10.1007/978-3-319-00948-3_9
- C81. **Badreddin, O.**, Lethbridge, T.C. and Elassar, M. (2013), “Modeling Practices in Open Source Software”, International Conference on Open Source Systems, E. Petrinja et al. (Eds.): OSS 2013, IFIP AICT 404, Springer, pp. 127–139.
- C80. **Badreddin, O.**, and Lethbridge, T.C. (2013), “Model Oriented Programming: Bridging the Code-Model Divide”, Modeling in Software Engineering, in conjunction with ICSE 2013, pp 69-75.

- C79. Lethbridge, T.C. (2012), “A Model of bCMS Using the Umple Model-Oriented Programming Approach”, Comparing Modeling Approaches 2012, Innsbruck Austria.
- C78. **Aljamaan, H.**, and Lethbridge, T.C. (2012), “Towards Tracing at the Model Level”, WCRE 2012, Kingson.
- C77. **Garzon, M.**, and Lethbridge, T.C. (2012), “Exploring how to Develop Transformations and Tools for Automated Umplification”, WCRE 2012, Kingston.
- C76. **Badreddin, O.**, **Forward, A.**, and Lethbridge, T. (2012), “Model Oriented Programming: An Empirical Study of Comprehension”, Cascon, ACM. Winner of Best Student Paper award.
- C75. **Badreddin, O.** and Lethbridge, T. (2012) “Combining Experiments and Grounded Theory to Evaluate a Research Prototype: Lessons from the Umple Model-Oriented Programming Technology”, 2012 First International Workshop on User evaluation for Software Engineering Researchers (USER 2012), in conjunction with ICSE 2012, pp 1-4. DOI: 10.1109/USER.2012.6226575.
- C74. Lethbridge, T., Mussbacher, G, **Forward, A.** and **Badreddin, O.** (2011) “Teaching UML Using Umple: Applying Model-Oriented Programming in the Classroom”, CSEE&T 2011, pp. 421-428.
- C73. **Fatolahi, A.**, Somé, S. and Lethbridge, T.C., (2011), “Towards Reusability in Web Modeling Using QVT Relations”, Webist 2011.
- C72. Lethbridge, T.C., **Forward, A.** and **Badreddin, O.** (2010), “Umplification: Refactoring to Incrementally Add Abstraction to a Program”, Working Conference on Reverse Engineering, Boston, October 2010, pp. 220-224.
- C71. **Forward, A.**, **Badreddin, O.**, and Lethbridge T.C. (2010), “Perceptions of Software Modeling: A Survey of Software Practitioners”, 5th Workshop From code centric to model centric: Evaluating the effectiveness of MDD (C2M:EEMDD), Paris, June 2010, <http://www.esi.es/modelplex/c2m/papers.php>.
- C70. **Fatolahi, A.**, Somé, S. and Lethbridge, T.C., (2010), “Designing a Map of Mappings: Visualization of QVT Relations using Basic Petri-Nets”, 2nd International Workshop on Future Trends of Model-Driven Development (FTMDD 2010), Madeira, Portugal (Springer), pp.33-45.
- C69. **Forward, A.**, **Badreddin, O.**, and Lethbridge T.C. (2010), “Umple: Towards Combining Model Driven with Prototype Driven System Development”, 21st IEEE International Symposium on Rapid System Prototyping, Fairfax VA, June.
- C68. **Fatolahi, A.**, Somé, S. and Lethbridge, T.C., (2010), “Automated Generation of Use Case Descriptions from Problem Frames”, Software Engineering Research, Management & Applications (SERA 2010), pp 223-230.

Papers submitted to refereed conferences

- Agner, L.**, and Lethbridge, T.C. “A Survey of Tool Use in Modeling Education”, Submitted to Models 2015

Weisman, R., and Lethbridge, T.C., “Integrating SE and EA for Better Outcomes”, submitted to CSDM

Chapters in Books: (last 7 years only)

BC9. Lethbridge, T.C. (2015) “Usable Software Tools: Winding Paths of Involvement in Cascon and CAS”, CAS 25th Anniversary Book

Papers in non-refereed conference proceedings

CN9. Akayama, S., Demuth, B., Lethbridge, T.C., Scholz, M., Stevens, P., Stikkolorum, D.R. (2014), “Tool use in software modelling education”, MODELS 2014 Educators’ Symposium, Post-conference proceedings of workshops, MoDELS 2013, <http://ceur-ws.org/Vol-1134/paper6.pdf>.