

# Timothy C Lethbridge

## List of Publications by Year in descending order

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Version: 2024-02-01

95  
papers

2,331  
citations

643344

15  
h-index

388640

36  
g-index

102  
all docs

102  
docs citations

102  
times ranked

1438  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Umple. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2021, , 1-25.   | 0.5 | 1         |
| 2  | Umple: Model-driven development for open source and education. Science of Computer Programming, 2021, 208, 102665.   | 1.5 | 16        |
| 3  | Low-Code Is Often High-Code, So We Must Design Low-Code Platforms to Enable Proper Software Engineering. Lecture Notes in Computer Science, 2021, , 202-212.                         | 1.0 | 17        |
| 4  | Umple-TL: A Model-Oriented, Dependency-Free Text Emission Tool. Communications in Computer and Information Science, 2020, , 127-155.   | 0.4 | 1         |
| 5  | UmpleOnline as a Testbed for Modeling Empirical Studies: A Position Paper. , 2019, , .   |     | 2         |
| 6  | Optimizing Hierarchical, Concurrent State Machines in Umple for Model Checking. , 2019, , .  |     | 1         |
| 7  | A Novel Approach to Measure Confidence and Uncertainty in Assurance Cases. , 2019, , .   |     | 4         |
| 8  | Student experience with software modeling tools. Software and Systems Modeling, 2019, 18, 3025-3047.   | 2.2 | 20        |
| 9  | Umple as a Template Language (Umple-TL). , 2019, , .   |     | 1         |
| 10 | Umple as a Template Language (Umple-TL). , 2019, , .   |     | 2         |
| 11 | Improving formal analysis of state machines with particular emphasis on and-cross transitions. Computer Languages, Systems and Structures, 2018, 54, 544-585.                        | 1.4 | 5         |
| 12 | Design and implementation of distributed expert systems: On a control strategy to manage the execution flow of rule activation. Expert Systems With Applications, 2018, 96, 129-148. | 4.4 | 12        |
| 13 | A Decade of Software Design and Modeling. , 2018, , .  |     | 25        |
| 14 | Using Umple to Synergistically Process Features, Variants, UML Models and Classic Code. Lecture Notes in Computer Science, 2018, , 69-88.  | 1.0 | 4         |
| 15 | Are our students engaged in their studies?. , 2018, , .  |     | 0         |
| 16 | Component-based Modeling in Umple. , 2018, , .   |     | 3         |
| 17 | Concurrent Programming using Umple. , 2018, , .  |     | 1         |
| 18 | Promoting traits into model-driven development. Software and Systems Modeling, 2017, 16, 997-1017.   | 2.2 | 9         |

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|----|--|-----|-----------|
| 19 | A Survey of Tool Use in Modeling Education. , 2017, , .  |     | 18        |
| 20 | The University of Ottawa Undergraduate Software Engineering Program: Leading and Innovative. , 2017, , .   |     | 2         |
| 21 | A Fully Automated Approach to Discovering Nondeterminism in State Machine Diagrams. , 2016, , .  |     | 3         |
| 22 | The role of semiotic engineering in software engineering. , 2016, , .  |     | 3         |
| 23 | Psychophysiological observing and analysis tool for user experience. , 2016, , .   |     | 1         |
| 24 | Merging Modeling and Programming Using Umple. Lecture Notes in Computer Science, 2016, , 187-197.  | 1.0 | 16        |
| 25 | Umple as a Component-based Language for the Development of Real-time and Embedded Applications. , 2016, , .  |     | 3         |
| 26 | Umple: A framework for Model Driven Development of Object-Oriented Systems. , 2015, , .  |     | 15        |
| 27 | Adding a Textual Syntax to an Existing Graphical Modeling Language: Experience Report with GRL. Lecture Notes in Computer Science, 2015, , 159-174.                        | 1.0 | 4         |
| 28 | Generating Software Documentation in Use Case Maps from Filtered Execution Traces. Lecture Notes in Computer Science, 2015, , 177-192.                                     | 1.0 | 7         |
| 29 | Teaching modeling using Umple: Principles for the development of an effective tool. , 2014, , .  |     | 14        |
| 30 | Requirement traceability: A model-based approach. , 2014, , .  |     | 10        |
| 31 | Exploring a Model-Oriented and Executable Syntax for UML Attributes. Studies in Computational Intelligence, 2014, , 33-53.   | 0.7 | 7         |
| 32 | Improving Code Generation for Associations: Enforcing Multiplicity Constraints and Ensuring Referential Integrity. Studies in Computational Intelligence, 2014, , 129-149. | 0.7 | 9         |
| 33 | Model oriented programming: Bridging the code-model divide. , 2013, , .  |     | 2         |
| 34 | Modeling Practices in Open Source Software. IFIP Advances in Information and Communication Technology, 2013, , 127-139.  | 0.5 | 16        |
| 35 | Exploring How to Develop Transformations and Tools for Automated Umplification. , 2012, , .  |     | 2         |
| 36 | Combining experiments and grounded theory to evaluate a research prototype: Lessons from the umple model-oriented programming technology. , 2012, , .                      |     | 7         |

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|----|---|-----|-----------|
| 37 | Towards Tracing at the Model Level. , 2012, , .   |     | 4         |
| 38 | Assessing composition in modeling approaches. , 2012, , .   |     | 3         |
| 39 | Model-driven rapid prototyping with Umple. Software - Practice and Experience, 2012, 42, 781-797.   | 2.5 | 23        |
| 40 | A metamodel for the compact but lossless exchange of execution traces. Software and Systems Modeling, 2012, 11, 77-98.                      | 2.2 | 15        |
| 41 | Teaching UML using umple: Applying model-oriented programming in the classroom. , 2011, , .   |     | 24        |
| 42 | Understanding the complexity embedded in large routine call traces with a focus on program comprehension tasks. IET Software, 2010, 4, 161. | 1.5 | 6         |
| 43 | Umple: Towards combining model driven with prototype driven system development. , 2010, , .   |     | 7         |
| 44 | A study of applying a research prototype tool in industrial practice. , 2010, , .   |     | 1         |
| 45 | Challenges and opportunities in applying research prototypes and findings into industrial practice. , 2010, , .                             |     | 0         |
| 46 | An examination of software engineering work practices. , 2010, , .  |     | 103       |
| 47 | Automated Generation of Use Case Descriptions from Problem Frames. , 2010, , .  |     | 1         |
| 48 | Umplification: Refactoring to Incrementally Add Abstraction to a Program. , 2010, , .   |     | 14        |
| 49 | Improving program comprehension by enhancing program constructs: An analysis of the Umple language. , 2009, , .                             |     | 11        |
| 50 | Ten Years Later, Experiments with Clustering as a Software Remodularization Method. , 2009, , .   |     | 2         |
| 51 | A taxonomy of software types to facilitate search and evidence-based software engineering. , 2008, , .                                      |     | 31        |
| 52 | Problems and opportunities for model-centric versus code-centric software development. , 2008, , .  |     | 48        |
| 53 | Software Engineering Data Collection for Field Studies. , 2008, , 9-34.   |     | 59        |
| 54 | Improving software practice through education: Challenges and future trends. , 2007, , .  |     | 93        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Extracting Document Structure to Facilitate a Knowledge Base Creation for The UML Superstructure Specification. , 2007, , .                             |     | 6         |
| 56 | Temporal Exploration of Software Models: A Tool Feature to Enhance Software Understanding. Reverse Engineering (WCRE), Working Conference on, 2007, , . | 0.0 | 7         |
| 57 | CodeSnippets Plug-in to Eclipse: Introducing Web 2.0 Tagging to Improve Software Developer Recall. , 2007, , .  |     | 2         |
| 58 | Modeling Relevance Relations Using Machine Learning Techniques. , 2007, , 168-207.  |     | 1         |
| 59 | SE2004: Recommendations for Undergraduate Software Engineering Curricula. IEEE Software, 2006, 23, 19-25.   | 2.1 | 38        |
| 60 | Summary of the Educatorâ€™s Symposium. Lecture Notes in Computer Science, 2006, , 302-305.  | 1.0 | 0         |
| 61 | Software Engineering Education (SEE) Research and Publication: Issues, Challenges and Directions. , 2005, , .   |     | 0         |
| 62 | Studying Software Engineers: Data Collection Techniques for Software Field Studies. Empirical Software Engineering, 2005, 10, 311-341.                  | 3.0 | 341       |
| 63 | SEAT: a usable trace analysis tool. , 2005, , .   |     | 8         |
| 64 | IEEE-CS/ACM computing curricula. SIGCSE Bulletin, 2004, 36, 450-452.  | 0.1 | 0         |
| 65 | The Dagstuhl Middle Metamodel: A Schema For Reverse Engineering. Electronic Notes in Theoretical Computer Science, 2004, 94, 7-18.                      | 0.9 | 39        |
| 66 | A Metamodel for Dynamic Information Generated from Object-Oriented Systems. Electronic Notes in Theoretical Computer Science, 2004, 94, 59-69.          | 0.9 | 15        |
| 67 | How software engineers use documentation: the state of the practice. IEEE Software, 2003, 20, 35-39.  | 2.1 | 242       |
| 68 | Comparative study of clustering algorithms and abstract representations for software remodularisation. IET Software, 2003, 150, 185.                    | 1.0 | 34        |
| 69 | The relevance of software documentation, tools and technologies. , 2002, , .  |     | 162       |
| 70 | Intelligent Search Methods for Software Maintenance. Information Systems Frontiers, 2002, 4, 409-423.   | 4.1 | 3         |
| 71 | Mixing Software Engineering Research and Development--What Needs Ethical Review and What Does Not?. , 2001, 6, 319-321.                                 |     | 4         |
| 72 | Evaluating a domain-specialist-oriented knowledge management system. International Journal of Human Computer Studies, 2000, 52, 961-990.                | 3.7 | 4         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Priorities for the education and training of software engineers. Journal of Systems and Software, 2000, 53, 53-71.  | 3.3 | 49        |
| 74 | What knowledge is important to a software professional?. Computer, 2000, 33, 44-50.   | 1.2 | 213       |
| 75 | Recovering software architecture from the names of source files. Journal of Software: Evolution and Process, 1999, 11, 201-221.                               | 0.5 | 79        |
| 76 | Recovering software architecture from the names of source files. , 1999, 11, 201.   |     | 7         |
| 77 | The relevance of software education: A survey and some recommendations. Annals of Software Engineering, 1998, 6, 91-110.                                      | 0.5 | 21        |
| 78 | Metrics for Concept-Oriented Knowledge Bases. International Journal of Software Engineering and Knowledge Engineering, 1998, 08, 161-188.                     | 0.6 | 12        |
| 79 | CODE4: a unified system for managing conceptual knowledge. International Journal of Human Computer Studies, 1995, 42, 413-451.                                | 3.7 | 29        |
| 80 | A simple heuristically-based method for expressive Stimulus-Response animation. Computers and Graphics, 1989, 13, 297-303.                                    | 1.4 | 20        |
| 81 | A survey of the relevance of computer science and software engineering education. , 0, , .  |     | 47        |
| 82 | Adoption of reverse engineering tools: a cognitive perspective and methodology. , 0, , .  |     | 9         |
| 83 | Report from the Dagstuhl seminar on interoperability of reengineering tools. , 0, , .   |     | 1         |
| 84 | Supporting software maintenance by mining software update records. , 0, , .   |     | 26        |
| 85 | Compression techniques to simplify the analysis of large execution traces. , 0, , .   |     | 30        |
| 86 | Enhancing program comprehension with recovered state models. , 0, , .   |     | 10        |
| 87 | Thoughts on software engineering knowledge, and how to organize it. , 0, , .  |     | 3         |
| 88 | IEEE-CS/ACM computing curriculum software engineering volume project. , 0, , .  |     | 1         |
| 89 | Guide to the Software Engineering Body of Knowledge (SWEBOK) and the Software Engineering Education Knowledge (SEEK) - a preliminary mapping. , 0, , .        |     | 7         |
| 90 | Improvements to the Guide to the Software Engineering Body of Knowledge (SWEBOK) and to the Software Engineering Education Body of Knowledge (SEEK). , 0, , . |     | 2         |

| #  | ARTICLE   | IF | CITATIONS |
|----|---|----|-----------|
| 91 | Predictive Software Models. , 0, , .  |    | 1         |
| 92 | A brief summary of cognitive patterns for program comprehension. , 0, , .   |    | 3         |
| 93 | Recovering Behavioral Design Models from Execution Traces. , 0, , .   |    | 44        |
| 94 | Summarizing the Content of Large Traces to Facilitate the Understanding of the Behaviour of a Software System. , 0, , . |    | 85        |
| 95 | Software Engineering 2004 â€” A Jewel in the ACM/IEEE-CS Curricula Effort. , 0, , 417-421.                              |    | 0         |