

Curriculum Vitae

Eugene Syriani

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Personal information

1. Current position

Associate professor

Department of computer science and operations research (DIRO)

Université de Montréal

Since June 2017

1.1. Research interest in computer science

- Software engineering: software design, empirical software engineering
- Model-driven engineering: model transformation, domain-specific modeling
- Automation, generative techniques, code generation
- Collaborative development environments
- Simulation: discrete-event simulation, simulation-based design

2. Education

Postdoctoral research fellow, McGill University, may – aug 2011

Ph.D., Computer Science, McGill University, 2011

B.Sc., Joint major in mathematics and computer science, McGill University, 2006

3. Academic experience

Assistant professor, DIRO, Université de Montréal, jun 2014 – jun 2016

Adjunct professor, Computer Science, University of Alabama, jun 2011 – dec 2016

Assistant professor, Computer Science, University of Alabama, aug 2011 – jun 2014

Lecturer, Computer Science, McGill University, sep 2008 – may 2011

4. Industry experience

Software engineer, Keyrus Canada Inc., Montreal QC, Canada, 2008 – 2011

Consultant, Synergie Contact, Montreal QC, Canada, 2007 – 2008

Software architect, Manyeta Informatique Inc., Montreal QC, Canada, 2006 – 2007

Consultant, Pierssens Innovations Inc., Montreal QC, Canada, 2005 – 2006

Teaching

1. Courses

1.1. Undergraduate

IFT2255 Software engineering (DIRO, 2nd year): Software processes, requirements, analysis, design, implementation, verification, maintenance. Theory of software engineering, but also practical hands-on experience on collaborative development of a software they will build.

IFT3911 Software design and analysis (DIRO, 3rd year): Principles of good object-oriented design, modeling with UML, code generation, design patterns, evaluation and analysis of software design.

CS315 Software engineering (U. Alabama, 2nd year): Same as IFT2255.

COMP304 Object-oriented software design (McGill, 3rd year): The object model, objects and classes, verification and testing, object-oriented analysis, UML, and design patterns.

CCCS300 Programming techniques 1 (McGill, 1st year certificate): Fundamental programming techniques, concepts, and data structures, including modularization and maintainability. Introduction to programming in Java.

1.2. Graduate

IFT6253 Model-based design (DIRO): model-driven engineering, engineering of domain-specific languages, techniques for metamodeling, model transformation design, analysis techniques on models.

CS600 Foundations in software engineering (U. Alabama): Software processes, software quality, UML, object-oriented design principles, design patterns.

CS691 Topics in software engineering (U. Alabama): Tour of existing modeling languages, software language engineering, model transformation design, introduction to modeling & simulation.

COMP522 Modeling and Simulation (McGill): General modelling and simulation principles by applying them to concrete problems, generic concepts of modelling and simulation, design of a simulator, discrete-event simulation.

CCCS2525 Graduate software project 1 (McGill, certificate): Planning and organization of work and resources for a software project, development of an actual system which is expected to be functional by the end of the semester.

2. Student supervision

2.1. Ph.D.

- Manouchehr Zadahmad, *Domain-specific version control systems*, forthcoming.
- Chihab Mokaddem, *Pattern detection and refactoring of model transformation*, co-advisor, forthcoming.
- Vasco Sousa, *Automatic synthesis of interactive modeling environments*, forthcoming.
- Huseyin Ergin, *Model transformation design patterns*, University of Alabama, 2017.

2.2. Masters

- Khady Fall, *Generation of collaborative IDEs*, forthcoming.
- Constantin Masson, *Collaborative modeling architecture*, forthcoming.
- Brice Bigendako, *Conducting systematic reviews iteratively and collaboratively*, forthcoming.
- Safaa Allamy, *Industrial internship*, advisor, forthcoming.
- Baila Khan, *Industrial internship*, advisor, forthcoming.
- Lechanceux Luhunu Kavuya, *Survey on template-based code generation*, 2017.
- Louis Andiazabal, *Improving the modernization of RPG legacy applications*, 2017.
- Miguel Gamboa, *Using Workflows to Automate Activities in MDE Tools*, 2016.
- Conner Hansen, *Controlling Statecharts refinement*, University of Alabama, 2013.
- Brian LaShomb, University of Alabama, *Custom-built transformation languages*, 2012.

2.3. Internships and other supervision activities

- Louis-Édouard Lafondant, undergraduate research internship, 2017.
- Félix Bélanger-Robillard, undergraduate research internship, 2017.
- Maxime Flageole, undergraduate research internship, 2017.
- Florin Oncica, undergraduate research internship, 2016.
- Khady Fall, undergraduate research internship, 2016.
- Sabrina Ouaret, undergraduate research internship, 2016.
- Adrien Fazio, undergraduate research internship, 2016.
- Daniel Riegelhaupt, master, research visitor, 2014 – 2015.
- Paul Sarazin, undergraduate research internship, 2014.
- Michel Rouly (George Mason University), undergraduate, NSF research internship, 2014.
- Jonathan Orbeck (University of Alabama), undergraduate, NSF research internship, 2014.
- Loli Burgueño (Universidad de Málaga), Ph.D., research visitor, 2014.
- Simon Van Mierlo (University of Antwerp), Ph.D., research visitor, 2013.
- Philip Guin (University of Alabama), undergraduate research internship, 2013.
- Ankica Barišić (Universidade Nova de Lisboa), Ph.D., research visitor, 2011.

3. Student evaluation

This excludes the evaluation of my own students.

3.1. Ph.D. committees

- Dean representative: 1.
- President of jury: 2.
- Internal jury member: 8.
- External jury: 1.

3.2. Master committees

- President of jury: 3.
- Internal jury member: 7.
- Internship evaluations: 4.

Research

1. Research projects

1.1. Funded projects

- Improving the Modernization of RPG Legacy Applications, *NSERC Engage Plus*, 2016, individual PI.
- Automating the Modernization of Legacy Applications, *NSERC Engage*, 2016, individual PI.
- Collaborative Modeling among Cross-Domain Teams, *NSERC Discovery*, 2015 – 2020, individual PI.
- Multi-Paradigm Modeling for Cyber-Physical Systems, *European Cooperation in Science and Technology*, ICT E-COST action IC1404, 2014 – 2018, external member.
- Internal funds, *Université de Montréal*, 2014 – 2015, individual.
- University of Alabama – Vanderbilt University Collaborations, *Southeastern Conference Visiting Faculty Travel Grant*, 2013, individual PI.
- Initial Experiments for Micro-Traffic Simulation, *University of Alabama Research and Grants Council*, 2013, individual PI.
- Internal funds, *University of Alabama*, 2011 – 2012, individual.

1.2. Unfunded projects

- Systematic literature review framework (ReLiS), *Université de Montréal*, 2014 – present, individual.
- Generic framework for modeling and simulation (AToMPM), project in collaboration with McGill University and the University of Antwerp, 2013 – present, co-PI.
- GEMOC initiative, France, 2012 – present, member.

2. Publications

2.1. Peer-reviewed journal articles

- [1] E. Syriani, L. Luhunu and H. Sahraoui. Systematic Mapping Study of Template-based Code Generation. *Computer Languages, Systems & Structures* (2017).
- [2] J. Corley, B. Eddy, E. Syriani and J. Gray. Efficient and Scalable Omniscient Debugging for Model Transformations. *Software Quality Journal*. 25(1), pp.7–48 (2017).
- [3] H. Ergin, E. Syriani, and J. Gray. Design Pattern Oriented Development of Model Transformations. *Computer Languages, Systems & Structures*: 46, pp. 106–139 (2016).
- [4] J. Corley, B. Eddy, E. Syriani and J. Gray. Efficient and scalable omniscient debugging for model transformations. *Software Quality Journal*: 9304, pp.1–42 (2016).

- [5] L. Lúcio, M. Amrani, J. Dingel, L. Lambers, R. Salay, G. Selim, E. Syriani and M. Wimmer. Model transformation intents and their properties. *Software and Systems Modeling*, pp. 1–38 (2015).
- [6] E. Syriani, H. Vangheluwe and B. LaShomb. T-Core: A Framework for Custom-built Transformation Languages. *Software and Systems Modeling*: 14(3), pp. 1215–1243 (2015).
- [7] E. Syriani and M. Wimmer. VOLT 2012/2013 Special Section. *Journal of Object Technology*: 14(3), (2013).
- [8] E. Syriani and H. Vangheluwe. A Modular Timed Graph Transformation Language for Simulation-based Design. *Software and System Modeling*: 12(2), pp. 387–414 (2012).
- [9] M. Ásztalos, E. Syriani, M. Wimmer, and M. Kessentini. Towards Transformation Rule Composition. *Journal of the Electronic Communications of the EASST*: 42 (2011).

Journal articles under revision

- [10] M. Gamboa and E. Syriani. Improving User Productivity in Modeling Tools Using Workflows. *Software and Systems Modeling* (2017).
- [11] E. Syriani, V. Sousa and L. Lúcio. Structural and Behavioral Preserving Statecharts Refinements. *Science of Computer Programming* (2017).

2.2. Books, magazines, and book chapters

- [1] M. Gamboa and E. Syriani. Using Workflows to Automate Activities in MDE Tools. *Model-Driven Engineering and Software Development selected papers*, CCIS: 692, pp. 22–45, Springer (2017).
- [2] Globalization: Using Languages to Support Technical and Social Coordination. In *Globalizing Domain-Specific Languages*. LNCS: 9400, pp. 70–87, Springer (2015).
- [3] J. Corley, E. Syriani, H. Ergin and S. Van Mierlo. Cloud-based Multi-View Modeling Environments. *Modern Software Engineering Methodologies for Mobile and Cloud Environments*. IGI Global (2015).
- [4] E. Syriani, J. Gray and H. Vangheluwe. Modeling a Model Transformation Language. *Domain Engineering: Product Lines, Conceptual Models, and Languages*, pp. 211–237. Springer (2012).

Submitted magazines

- [5] O. Alam, J. Corley, C. Masson and E. Syriani. Challenges for Reuse in Collaborative Modeling Environments. *IEEE Software* (2018).

2.3. Peer-reviewed conference proceedings

- [1] B. Bigendako and E. Syriani. Modeling a Tool for Conducting Systematic Reviews Iteratively. *Model-Driven Engineering and Software Development*. SciTePress, Madeira, Portugal (2018).
- [2] L. Luhunu and E. Syriani. Comparison of the Expressiveness and Performance of Template-based Code Generation Tools. *Software Language Engineering*. ACM, pp. 206–216. Vancouver, Canada (2017).
- [3] V. Sousa, E. Syriani, and M. Paquin. Feedback on How MDE Tools Are Used Prior to Academic Collaboration. *Symposium on Applied Computing*. ACM, pp. 1190–1197. Marrakech, Morocco (2017).

- [4] C. Mokaddem, H. Sahraoui and E. Syriani. Towards Rule-based Detection of Design Patterns in Model Transformations. *System Analysis and Modeling*. LNCS: 9959, pp. 211–225, Springer. Saint-Malo, France (2016).
- [5] M. Gamboa and E. Syriani. Automating Activities in MDE Tools. *Model-Driven Engineering and Software Development*, pp. 123–133. SciTePress, Rome, Italy (2016). **[best paper]**
- [6] E. Batot, P. Molins, W. Sboui, E. Syriani and H. Sahraoui. Systematic Mapping Study of Model Transformations for Concrete Problems. *Model-Driven Engineering and Software Development*, pp. 176–183. SciTePress, Rome, Italy (2016).
- [7] J. Corley, E. Syriani and H. Ergin. Evaluating the Cloud Architecture of AToMPM. *Model-Driven Engineering and Software Development*, pp. 339–346. SciTePress, Rome, Italy (2016).
- [8] B. Meyers, R. Deshayes, L. Lucio, E. Syriani, H. Vangheluwe and M. Wimmer. ProMoBox: A Framework for Generating Domain-Specific Property Languages. *Software Language Engineering*. LNCS: 8706, pp. 1–20. Springer, Västerås, Sweden (2014).
- [9] L. Burgueño, E. Syriani, M. Wimmer, J. Gray, A. Vallecillo. Primitive Operators for the Concurrent Execution of Model Transformations Based on LinTra. *Jornadas de Ingeniería del Software y Bases de Datos*, pp. 267–272. Cádiz, Spain (2014).
- [10] H. Ergin and E. Syriani. Towards a Language for Graph-Based Model Transformation Design Patterns. *Theory and Practice of Model Transformations*, LNCS: 8568, pp. 91–105. Springer, York, U.K. (2014).
- [11] P. Guin and E. Syriani. Model-based Animation of Micro-Traffic Simulation (WIP). *Theory of Modeling and Simulation – DEVS Integrative Me&S Symposium*. Society for Computer Simulation International: 19, pp. 1–6. San Diego CA, U.S.A. (2013).
- [12] H. Ergin and E. Syriani. Identification and Application of a Model Transformation Design Pattern. *ACM Southeast Conference*. ACM: 46, Savannah GA, U.S.A. (2013).
- [13] C. Hansen and E. Syriani. An MDE Solution for the Development of Robotic Device Drivers. *ACM Southeast Conference*. ACM: 21, Savannah GA, U.S.A. (2013).
- [14] H. Cho, J. Gray and E. Syriani. SyntaxMap: A Modeling Language for Capturing Requirements of Graphical DSML. *Asia-Pacific Software Engineering Conference*: 1, pp. 705–708. IEEE Computer Society, Hong Kong (2012).
- [15] P. Kilgo, E. Syriani and M. Anderson. A visual modeling language for RDIS and ROS nodes using AToM3. *Simulation, Modeling, and Programming for Autonomous Robots*, LNCS: 7628, pp. 125–136. Springer, Tsukuba, Japan (2012).
- [16] E. Syriani and J. Gray. Challenges for Addressing Quality Factors in Model Transformation. *Software Testing, Verification and Validation*, pp. 929–937. IEEE, Montreal QC, Canada (2012).
- [17] E. Syriani, H. Vangheluwe and A. Al-Mallah. Modelling and Simulation-based Design of a Distributed DEVS Simulator. *Winter Simulation Conference*, pp. 3002–3016. IEEE, Phoenix AZ, U.S.A. (2011).

2.4. Other peer-reviewed proceedings

- [1] L. Luhunu and E. Syriani. Survey on Template-based Code Generation. *MODELS 2017 Satellite Events Proceedings*. CEUR: 2019, pp. 468–471, Austin TX, U.S.A. (2017).

- [2] O. Alam, V. Sousa, and E. Syriani. Towards Collaborative Modeling Using a Concern-Driven Version Control System. *MODELS 2017 Satellite Events Proceedings*. CEUR: 2019, pp. 155–163, Austin TX, U.S.A. (2017).
- [3] C. Masson, J. Corley, and E. Syriani. Feature Model for Collaborative Modeling Environments. *MODELS 2017 Satellite Events Proceedings*. CEUR: 2019, pp. 164–173, Austin TX, U.S.A. (2017).
- [4] E. Syriani. Framework to Model Collaboratively. *MODELS workshop on Collaborative Modelling in MDE*. CEUR-WS.org: 1717, pp. 4. Saint-Malo, France (2016).
- [5] I. Dávid, E. Syriani, C. Vebrugge, D. Buchs, D. Blouin, A. Cicchetti, and K. Vanherpen. Towards Inconsistency Tolerance by Quantification of Semantic Inconsistencies. *MODELS workshop on Collaborative Modelling in MDE*. CEUR-WS.org: 1717, pp. 35–44. Saint-Malo, France (2016).
- [6] E. Syriani. Framework to Model Collaboratively. *Workshop on Collaborative Modelling in MDE*. CEUR-WS.org: 1717, pp. 4. Saint-Malo, France (2016).
- [7] C. Hansen, E. Syriani, and L. Lucio. Towards Controlling Refinements of Statecharts. *SLE posters*, CoRR: abs/1503.07266, Pittsburg PA, U.S.A. (2015).
- [8] V. Sousa and E. Syriani. An Expedient Approach to Modeling IDE Interaction Design. *MODELS workshop on Multi-Paradigm Modeling (MPM)*. CEUR-WS.org: 1511, pp. 52–61, Ottawa, Canada (2015).
- [9] J. Corley and E. Syriani. A Cloud Architecture for an Extensible Multi-Paradigm Modeling Environment. *MODELS 2014 Poster Session*. CEUR-WS.org: 1258, pp. 6–10, Valencia, Spain (2014).
- [10] S. Van Mierlo, B. Barroca, H. Vangheluwe, E. Syriani and T. Kuehne. Multi-Level Modelling in the Modelverse. *STAF workshop on Multi-Level Modelling (MULTI)*. CEUR-WS.org: 1286, pp. 83–92, Valencia, Spain (2014).
- [11] J-M. Rouley, J. Orbeck and E. Syriani. Usability and Suitability Survey of Features in Visual IDEs for Non-Programmers. *Evaluation and Usability of Programming Languages and Tools (PLATEAU)*, pp. 31–42, ACM, Portland OR, U.S.A. (2014).
- [12] L. Burgueño, E. Syriani, M. Wimmer, J. Gray, A. Vallecillo. LintraP: Primitive Operators for the Execution of Model Transformations with LinTra. *STAF workshop on Scalability in Model Driven Engineering (BigMDE)*. CEUR-WS.org: 1206, York, U.K. (2014).
- [13] H. Ergin and E. Syriani. AToMPM Solution for the IMDB Case Study. *Transformation Tool Contest (TTC)*. CEUR-WS.org: 1305, pp. 134–138, York, U.K. (2014).
- [14] H. Ergin and E. Syriani. AToMPM Solution for the Petri Net to Statecharts Case Study. *Transformation Tool Contest (TTC)*. Electronic Proceedings in Theoretical Computer Science. Budapest, Hungary (2013).
- [15] E. Syriani, H. Vangheluwe, R. Mannadiar, C. Hansen, S. Van Mierlo and H. Ergin. AToMPM: A Web-based Modeling Environment. *MODELS'13 Demonstration Session*. CEUR-WS.org: 1115, Miami FL, U.S.A. (2013).
- [16] L. Lúcio, E. Syriani, M. Amrani and Q. Zhang. Invariant Preservation in Iterative Modeling. *MODELS workshop on Models and Evolution (ME)*, pp. 57–62. ACM, Innsbruck, Austria (2012).
- [17] M. Amrani, J. Dingel, L. Lambers, L. Lúcio, R. Salay, G. Selim, E. Syriani and M. Wimmer. Towards a Model Transformation Intent Catalog. *MODELS workshop on Analysis of Model Transformation (AMT)*, pp. 3–8. ACM, Innsbruck, Austria (2012).

- [18] E. Syriani and H. Ergin. Operational Semantics of UML Activity Diagram: An Application in Project Management. *Model-Driven Requirements Engineering Workshop (MoDRE)*, pp. 1–8. IEEE, Chicago IL, U.S.A. (2012).
- [19] H. Cho, J. Gray and E. Syriani. Creating Visual Domain-Specific Modeling Languages from End-User Demonstration. *ICSE workshop on Modeling in Software Engineering (MiSE)*, pp. 22–28. IEEE, Zürich, Switzerland (2012).
- [20] J. Carver, E. Syriani and J. Gray. Assessing the Frequency of Empirical Evaluation in Software Modeling Research. *MODELS workshop on Experiences and Empirical Studies in Software Modelling (EESMod)*, CEUR-WS.org: 785, Wellington, New Zealand (2011).
- [21] L. Lúcio, H. Vangheluwe, E. Syriani, and M. Jukss. How to Verify a Model Transformation does its Job? *Center of Advanced Studies on Collaborative Research (CASCON)*. IBM/ACM, Markham ON, Canada (2011).
- [22] E. Syriani and H. Vangheluwe. Model Transformation Language Engineering. *NECSIS Launch Event*. Hamilton ON, Canada (2011).

2.5. Edited proceedings

- [1] F. Boulanger, E. Syriani and A. Wortmann. *Fifth Workshop on the Globalization of Modeling Languages (GEMOC 2017)*. CEUR-WS.org: 2019, pp. 278–279 (2017).
- [2] J. Deantoni, J. Gray, E. Syriani. *4th International Workshop on the Globalization Of Modeling Languages (GEMOC 2016) co-located with MODELS*. CEUR-WS.org: 1731. Saint Malo, France (2016).
- [3] H. Ergin, R. F. Paige, E. Syriani, S. Zschaler, M. Amrani. *Joint Proceedings of the Second International Workshop on Patterns in Model Engineering (PAME 2016) and the Fifth International Workshop on the Verification of Model Transformation (VOLT 2016) co-located with MODELS*. CEUR-WS.org: 1693. Saint Malo, France (2016).
- [4] R. Paige, E. Syriani, S. Zschaler and H. Ergin. Patterns in Model Engineering 2015 - a Workshop Summary. *Proceedings of the First Workshop on Patterns in Model Engineering (PAME 2015) co-located with Software Technologies: Applications and Foundations*. CEUR-WS.org: 1657, L'Aquila, Italy (2015).
- [5] M. Amrani, E. Syriani and M. Wimmer. *Proceedings of the Fourth International Workshop on Verification of Model Transformations (VOLT 2015) co-located with Software Technologies: Applications and Foundations*. CEUR-WS.org: 1530, L'Aquila, Italy (2015).
- [6] M. Amrani, E. Syriani, M. Wimmer, R. Bill, M. Gogolla, F. Hermann and K. Lano. Report on the Third Workshop on Verification of Model Transformations. *VOLT 2014*. CEUR-WS.org: 1325, pp. 1–9, York, U.K. (2014).
- [7] C. Hardebolle, E. Syriani, J. Sprinkle and T. Mészáros. Summary of the 6th International Workshop on Multi-Paradigm Modeling (MPM'12). *Workshop on Multi-Paradigm Modeling (MPM)*: pp. 5–6. ACM, Innsbruck, Austria (2012).

3. Awards

- Best reviewer award for the *ACM International Conference on Software Language Engineering*, 2016.

Contribution to the international research community

1. Colloquiums, conferences, scientific or professional events

In addition to all the conferences where I presented published articles, I contributed as presenter at the following events:

- Dagstuhl seminar 18351. Dagstuhl, Germany, 2018.
- Dagstuhl seminar 17342 Dagstuhl, Germany, 2017.
- Summer school on Domain-specific Modeling. Montréal, Canada, 2017.
- Keynote, International Workshop on Collaborative Modelling in MDE. Saint Malo, France, 2016.
- Summer school on Domain-specific Modeling. Geneva, Switzerland, 2016.
- MathWorks Research Summit, MathWorks. Newton MA, U.S.A., 2013, 2016.
- Séjour du DIRO, Université de Montréal. Montreal, Canada, 2015 – 2016.
- Microsoft Research Faculty Summit, Microsoft, Redmond WA, U.S.A., 2015.
- Dagstuhl seminar 14412. Dagstuhl, Germany, 2014.
- Summer school on Domain-specific Modeling. Antwerp, Belgium, 2014 – 2015.
- Colloquium at the Université de Montréal. Montreal, Canada, 2014.
- Summer school on Domain-specific Modeling. Santiago de Compostela, Spain, 2013.
- Summer school on Domain-specific Modeling. Lisbon, Portugal, 2011 – 2012.
- Colloquium at Vanderbilt University. Nashville TN, U.S.A., 2011.
- Computer-Aided Multi-Paradigm Modelling Workshop. Barbados, 2011 – 2016.
- Colloquium at the University of Alabama. Tuscaloosa AL, U.S.A., 2011.

2. Peer-review committees

2.1. Program committees

Conferences

- | | |
|---|---|
| <ul style="list-style-type: none"> • Model Driven Engineering Languages and Systems (MODELS): 2016 – 2017, Program Board: 2018 • Software Language Engineering (SLE): 2015 – 2017 | <ul style="list-style-type: none"> • Model-Driven Engineering & Software Development (MODELSWARD): 2015 – 2017 • International Conference on Model Transformation (ICMT): 2013 – 2018 • Winter Simulation Conference: 2016 |
|---|---|

- Theory of Modeling & Simulation – DEVS: 2014 – 2016, 2018
- Quality of Information & Communications Technology (QUATIC): 2012 – 2018, aux 2 ans
- System Design Languages: 2015
- System Analysis & Modelling Conference (SAM): 2014 – 2015
- European Conference on Modelling Foundations & Applications (ECMFA): 2013, 2018
- ACM Southeast Conference: 2012
- Application of Graph Transformation with Industrial Relevance (AGTIVE): 2011

Other events

- Modularity in Modeling Workshop (2016 – 2018)
- Workshop on Debugging in Model-Driven Engineering (2017)
- Software Engineering and Advanced Applications (2017)
- Workshop on Executable Modeling (2016 – 2017)
- Workshop on the Interplay of MDE and CBSE (2016 – 2017)
- Workshop on Collaborative Modelling in MDE (2016 – 2017)
- Workshop on Model-driven Requirement Engineering (2014 – 2017)
- Workshop on The Globalization of Modeling Languages (2013 – 2017)
- MODELS ACM student research competition (2013, 2016 – 2017)
- Workshop on Executable Modeling (2016)
- MODELS workshops (2016)
- MODELS tutorials (2015 – 2016)
- MODELS doctoral symposium (2015)
- Workshop on Scalability in MDE (2015)
- Transformation Tool Contest (2015)
- MODELS posters and demonstrations (2014 – 2015)
- Workshop on the Analysis of Model Transformations (2012, 2015)
- Workshop on Multi-Paradigm Modeling (2011, 2015)
- Domain-Specific Modeling Workshop (2014)
- Comparing Modeling Approaches Workshop (2013)
- Workshop on View-Based, Aspect-Oriented & Orthographic Software Modelling (2013)

2.2. Peer-review for journals

Numbers indicate the number of articles reviewed.

- IEEE Software (1)
- Transactions on Software Engineering (1)
- Software & System Modeling (8)
- Science of Computer Programming (2)
- Transactions on Simulation (1)
- Transactions on Modeling and Computer Simulation (1)
- Simulation Modelling Practice & Theory (3)
- Software Quality Journal (1)
- Journal of Systems & Software (2)

- Computer Languages, Systems & Structures (4)
- Information & Software Technology (1)
- Computer and Electrical Engineering (1)
- Journal of Information Processing Systems (1)
- IET Software (1)
- The Computer Journal (1)
- Embedded Systems Letters (1)

2.3. Reviewer for funding organizations

- External reviewer, National science and engineering research counsel (NSERC), Canada, 2017.
- External reviewer, Hasler Foundation, Switzerland, 2016.
- External reviewer, Université du Luxembourg, Luxembourg, 2014.
- Review panel, National Science Foundation, U.S.A., 2012 – 2013.

3. Active participation to scientific organizations

- General chair of the *ACM/IEEE 23rd International Conference on Model Driven Engineering Languages & Systems (MODELS)*, 2020.
- Steering committee member of the *ACM/IEEE International Conference on Model Driven Engineering Languages & Systems (MODELS)*, 2017 – 2022.
- Deputy conference chair of the *ACM/IEEE 41st International Conference on Software Engineering (ICSE)*, 2019.
- Regional publicity chair *ACM/IEEE International Conference on Model Driven Engineering Languages & Systems (MODELS)*, 2017 – 2018.
- Program chair of the *Summer Computer Simulation Conference (SummerSim)*, 2017.
- Organizer of the *International Summer school on Domain-specific Modeling Theory and Practice (DSM-TP)*, 2017.
- Organizer of the *International Workshop on The Globalization of Domain Specific Languages (GEMOC)*, 2016 – 2017.
- Organizer of the *International Workshop on Patterns in Model Engineering (PAME)*, 2015 – 2016.
- Proceedings chair of the *Summer Computer Simulation Conference (SummerSim)*, 2015.
- Organizer of the *International Workshop on Verification and Validation of Model Transformations (VOLT)*, 2012 – 2016.
- Special issue editor for the *Journal of Object Technology*, 2014.
- Proceedings chair of the *Summer Computer Simulation Conference (SummerSim)*, 2014.
- Workshops chair of the *ACM/IEEE 16th International Conference on Model Driven Engineering Languages & Systems (MODELS)*, 2013.
- Organizer of the *6th International Workshop on Multi-Paradigm Modeling (MPM)*, 2012.