

Publications of Cecilia Bastarrica by type

Type A

1. Felipe Contreras, Nancy Hitschfeld, Cecilia Bastarrica, Carlos Lillo. Balancing Flexibility and Performance in Three Dimensional Meshing Tools. *Advances in Engineering Software* 41(3):471-479, Mar 2010. Elsevier Science, Amsterdam, The Netherlands. ISSN 0965-9978.
2. Andrés Vignaga, Frédéric Jouault, Cecilia Bastarrica, Hugo Bruneliere. Typing Artifacts in Megamodeling. *Software and Systems Modeling (SOSYM)* 12(1):105-119, 2013. Springer-Verlag, Berlin/Heidelberg, Germany. ISSN 1619-1366.
3. Sergio Ochoa, Jocelyn Simmonds, Julio Ariel Hurtado, Cecilia Bastarrica. MDE Software Process Lines in Small Companies. *Journal of Systems and Software (JSS)* 86(5):1153-1171, May 2013. Elsevier Science, Amsterdam, The Netherlands. ISSN 0164-1212.
4. Romain Robbes, René Vidal, Cecilia Bastarrica. Are Software Analytics Efforts Worthwhile for Small Companies? The Case of Amisoft. *IEEE Software* 30(5):46-53, Sep 2013. IEEE Press, Piscataway, NJ, USA. ISSN 0740-7459.
5. Pedro Rossel, Cecilia Bastarrica, Nancy Hitschfeld, Violeta Diaz, Mario Medina. Domain Modeling as a Basis for Building a Meshing Tool Software Product Line. *Advances in Engineering Software* 70:77-89, Apr 2014. Elsevier Science, Amsterdam, The Netherlands. ISSN 0965-9978.
6. Julio Hurtado, Cecilia Bastarrica, Alcides Quispe, Sergio Ochoa. MDE-Based Process Tailoring Strategy. *Journal of Software: Evolution and Process (JSEP)* 26(4):386-403, Apr 2014. John Wiley & Sons, Hoboken, NJ, USA. ISSN 2047-7481.
7. Julio Ariel Hurtado Alegria, Cecilia Bastarrica, Alexandre Bergel. Avispa: A Tool for Analyzing Software Process Models. *Journal of Software: Evolution and Process (JSEP)* 26(4):434-450, Apr 2014. John Wiley & Sons, Hoboken, NJ, USA. ISSN 2047-7481.
8. Fabian Rojas, Jocelyn Simmonds, Cecilia Bastarrica. The V-algorithm for Discovering Software Process Lines. *Journal of Software: Evolution and Process (JSEP)* 28(9):783-799, Sep 2016. John Wiley & Sons, Hoboken, NJ, USA. ISSN 2047-7481.
9. Maira Marques, Sergio Ochoa, Cecilia Bastarrica, Francisco Gutierrez. Enhancing the Student Learning Experience in Software Engineering Project Courses. *IEEE Transactions on Education* 61(1):63-73, Feb 2018. IEEE Education Society, Los Alamitos, CA, USA. ISSN 0018-9359.
10. Maira Marques, Jocelyn Simmonds, Pedro Rossel, Cecilia Bastarrica. Software Product Line Evolution: A Systematic Literature Review. *Information and Software Technology (IST)* 105:190-208, 2019. Elsevier Science, Amsterdam, The Netherlands. ISSN 0950-5849.
11. Jocelyn Simmonds, Cecilia Bastarrica, Nancy Hitschfeld. Impact of Affirmative Action on Female Computer Science/Software Engineering Undergraduate Enrollment. *IEEE Software* 38(2):32-37, Mar 2021. IEEE Press, Piscataway, NJ, USA. ISSN 0740-7459.

12. Marco Kuhrmann, Paolo Tell, Regina Hebig, Jil Klünder, Jürgen Münch, Oliver Linssen, Dietmar Pfahl, Michael Felderer, Christian R. Prause, Stephen G. MacDonell, Joyce Nakatumba-Nabende, David Raffo, Sarah Beecham, Eray Tüzün, Gustavo López, Nicolas Paez, Diego Fontdevila, Sherlock A. Licorish, Steffen Küpper, Günther Ruhe, Eric Knauss, Özden Özcan-Top, Paul Clarke, Fergal McCaffery, Marcela Genero, Aurora Vizcaino, Mario Piattini, Marcos Kalinowski, Tayana Conte, Rafael Prikladnicki, Stephan Krusche, Ahmet Coskuncay, Ezequiel Scott, Fabio Calefato, Svetlana Pimonova, Rolf-Helge Pfeiffer, Ulrik Pagh Schultz, Rogardt Høldal, Masud Fazal-Baqaie, Craig Anslow, Maleknaz Nayeibi, Kurt Schneider, Stefan Sauer, Dietmar Winkler, Stefan Biffl, Cecilia Bastarrica, Ita Richardson. What Makes Agile Software Development Agile. *IEEE Transactions on Software Engineering (TSE)*, 2021. IEEE Computer Society Press, Los Alamitos, CA, USA. ISSN 0098-5589.
13. Cecilia Bastarrica, Francisco Gutierrez, Maira Marques, Daniel Perovich. On The Impact of Grading on Teamwork Quality in a Software Engineering Capstone Course. *IEEE Access* 11:36492-36503, Apr 2023. IEEE Computer Society Press, Los Alamitos, CA, USA. ISSN 2169-3536.
14. Cecilia Bastarrica, Jocelyn Simmonds. The Influence of Software Engineering Education on Developing Teamwork Skills in Both Genders. *IEEE Access* 13:116944-116958, Jul 2025. IEEE Computer Society Press, Los Alamitos, CA, USA. ISSN 2169-3536.

Type B

1. Julio Ariel Hurtado Alegria, Cecilia Bastarrica, Alexandre Bergel. Is it Safe to Adopt the Scrum Process Model?. *CLEI Electronic Journal* 14(3):paper 7, 2011. ISSN 0717- 5000.
2. Luis Silvestre, Cecilia Bastarrica, Sergio Ochoa. Reducing Complexity of Process Tailoring Transformations Generation. *Communications in Computer and Information Science* 506:171-182, Dec 2015. Springer Science+Business Media, Singapore, Singapore. ISSN 1865-0929.

Type H

1. Jocelyn Simmonds, Cecilia Bastarrica, Nancy Hitschfeld, Pablo Villar Mascaró, Diego Wistuba, Jo Muñoz Montenegro, Millaray Cárdenas. Rethinking Gender Diversity and Inclusion Initiatives for CS and SE in a University Setting. In *Equity, Diversity, and Inclusion in Software Engineering. Best Practices and Insights*, pp. 399-412, Sep 2024. Apress, One New York Plaza, Suite 4600, New York.
2. Cecilia Bastarrica, Luis Silvestre, Andrés Wallberg, Daniel González. DynaTool: A Tool for Optimizing Hybrid Software Process. In *Model-Based Software and Systems Engineering*, pp. 88-104, Aug 2025. Springer Nature Switzerland AG, Cham, Switzerland. Communications in Computer and Information Science vol. 2547.

Type L0

1. Cecilia Bastarrica, Gerardo Matrurri, Romain Robbes, Luis Silvestre, René Vidal. How does Quality of Formalized Software Processes Affect Adoption?. In Matthias Jarke, John Mylopoulos, Christoph Quix, Colette Rolland, Yannis Manolopoulos, Haralambos Mouratidis, Jennifer Horkoff (ed.), *Proc. 26th International Conference Advanced Information Systems Engineering (CAiSE)*, pp. 226-240, Jun 2014. Thessaloniki, Greece. SpringerOpen, Springer-Verlag, Heidelberg, Germany. Lecture Notes in Computer Science vol. 8484. ISBN 978-3-319-07880-9.
2. Cecilia Bastarrica, Daniel Perovich, Maira Marques. What can Students Get from a Software Engineering Capstone Course?. In *Proc. 39th ACM/IEEE International Conference on Software Engineering (ICSE)*, pp. 137-145, May 2017. Buenos Aires, Argentina. ACM Press, New York, NY, USA.
3. Cecilia Bastarrica, Daniel Perovich, Francisco Gutierrez, Maira Marques. A Grading Schema for Reinforcing Teamwork Quality in a Capstone Course. In *Proc. 41st ACM/IEEE International Conference on Software Engineering (ICSE)*, pp. 276-277, May 2019. Montreal, Quebec, Canada. ACM Press, New York, NY, USA.

Type L1

1. Pedro Rossel, Daniel Perovich, Cecilia Bastarrica. Reuse of Architectural Knowledge in SPL Development. In Stephen H. Edwards, Gregory Kulczycki (ed.), *Proc. 11th International Conference on Software Reuse (ICSR)*, pp. 191-200, Sep 2009. Falls Church, Virginia, USA. Springer-Verlag, Berlin/Heidelberg, Germany. Lecture Notes in Computer Science vol. 5791.
2. Daniel Perovich, Pedro Rossel, Cecilia Bastarrica. Feature Model to Product Architectures: Applying MDE to Software Product Lines. In *Proc. 6th Working IEEE/IFIP Conference on Software Architecture (WICSA)*, pp. 201-210, Sep 2009. Cambridge, UK. IEEE Press, Piscataway, NJ, USA.
3. Julio Ariel Hurtado, Alejandro Lagos, Alexandre Bergel, Cecilia Bastarrica. Software Process Model Blueprints. In Jürgen Münch, Ye Yang, Wilhelm Schäfer (ed.), *Proc. 4th International Conference on Software Process (ICSP)*, pp. 273-284, Jul 2010. Paderborn, Germany. Springer-Verlag, Berlin/Heidelberg, Germany. Lecture Notes in Computer Science vol. 6195.
4. Julio Ariel Hurtado, Cecilia Bastarrica, Alcides Quispe, Sergio Ochoa. An MDE Approach to Software Process Tailoring. In David Raffo, Dietmar Pfahl, Li Zhang (ed.), *Proc. 5th International Conference on Software and System Process (ICSSP)*, pp. 43-52, May 2011. Honolulu, Hawaii, USA. ACM Press, New York, NY, USA.
5. Julio Ariel Hurtado, Cecilia Bastarrica, Alexandre Bergel. Analyzing Software Process Models with AVISPA. In David Raffo, Dietmar Pfahl, Li Zhang (ed.), *Proc. 5th International Conference on Software and System Process (ICSSP)*, pp. 23-32, May 2011. Honolulu, Hawaii, USA. ACM Press, New York, NY, USA.

6. Julio Ariel Hurtado, Cecilia Bastarrica. Building Software Process Lines with CASPER. In R. Jeffery, D. Raffo (ed.), *Proc. 6th International Conference on Software Process (ICSP)*, pp. 170-179, Jun 2012. Zurich, Switzerland. Springer-Verlag, Berlin/Heidelberg, Germany. Lecture Notes in Computer Science.
7. Daniel Perovich, Cecilia Bastarrica. Model-Based Formalization of Software Architecture Knowledge. In John Klein, Antony Tang (ed.), *Proc. 11th Working IEEE/IFIP Conference on Software Architecture (WICSA)*, pp. 235-238, Apr 2014. Sydney, Australia. IEEE Press, Piscataway, NJ, USA.
8. Fabian Rojas, Jocelyn Simmonds, Cecilia Bastarrica. Software Process Line Discovery. In *Proc. 9th International Conference on Software and System Process (ICSSP)*, pp. 127-136, Aug 2015. Tallin, Estonia. ACM Press, New York, NY, USA. ISBN 10.1145/2785592.2785605.
9. Jocelyn Simmonds, Daniel Perovich, Cecilia Bastarrica, Luis Silvestre. A Megamodel for Software Process Line Modeling and Evolution. In Timothy Lethbridge, Jordi Cabot, Alexander Egyed (ed.), *Proc. 18 ACM/IEEE International Conference on Model Driven Engineering Languages and Systems (MODELS)*, pp. 406-415, Sep 2015. Springer-Verlag, Berlin/Heidelberg, Germany. LNCS. ISBN 978-1-4673-6907-7.
10. Maira Marques, Sergio Ochoa, Cecilia Bastarrica. Software Engineering Education in Chile - Status Report. In Alison Clear, Ernesto Cuadros-Vargas, Janet Carter, Yvan Tupac (ed.), *Proc. 21st ACM Conference on Innovation and Technology in Computer Science Education (ITICSE)*, pp. 180-185, Jul 2016. Arequipa, Perú. ACM Press, New York, NY, USA. ISBN 978-1-4503-4231-5.
11. Cecilia Bastarrica, Daniel Perovich, Jacqueline Marín, Luis Rioseco. Process-based Project Management and SPI. In *Proc. 10th International Conference on Software Process (ICSP)*, pp. 124-133, Jul 2017. Paris, France. Springer-Verlag, Berlin/Heidelberg, Germany. Lecture Notes in Computer Science. ISBN 978-1-4503-5270-3.
12. Cecilia Bastarrica, Germán Espinoza, Jacqueline Marín. Implementing Agile Practices: The Experience of TSol. In Markku Oivo, Daniel Méndez, Audris Mockus (ed.), *Proc. 12th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM)*, pp. 10, Oct 2018. Oulu, Finland. ACM Press, New York, NY, USA. ISBN 978-1-4503-5823-1.
13. Jacqueline Marín, Julio Ariel Hurtado Alegría, Cecilia Bastarrica, Luis Silvestre. Tailoring Hybrid Software Processes in a Medium-Size Software Company. In *Proc. 38th ACM Symposium on Applied Computing (SAC)*, pp. 1042-1050, Mar 2023. Tallin, Estonia. ACM Press, New York, NY, USA. ISBN 9781450395175.

Type L2

1. Andrés Vignaga, Frédéric Jouault, Cecilia Bastarrica, Hugo Brunelière. Typing in Model Management. In Richard F. Paige (ed.), *Proc. 2nd International Conference on Theory and*

- Practice of Model Transformations (ICMT)*, pp. 197-212, Jun 2009. Zurich, Switzerland. Springer-Verlag, Berlin/Heidelberg, Germany. Lecture Notes in Computer Science vol. 5563.
2. Daniel Perovich, Cecilia Bastarrica, Cristián Rojas. Model-Driven Approach to Software Architecture Design. In Patricia Lago, Paris Avgeriou, Philippe Kruchten (ed.), *Proc. 4th Workshop on Sharing and Reusing Architectural Knowledge (SHARK)*, pp. 1-8, May 2009. Vancouver, Canada. IEEE Press, Piscataway, NJ, USA.
 3. Andrés Vignaga, Cecilia Bastarrica. Typing ATL Models in Global Model Management. In Frédéric Jouault (ed.), *Proc. 1st International Workshop on Model Transformation with ATL (MtATL)*, pp. 47-62, Jul 2009. Nantes, France. CEUR Publications.
 4. Julio Ariel Hurtado, Cecilia Bastarrica, Alexandre Bergel. Analyzing the Scrum Process Model with AVISPA. In Sergio Ochoa, Federico Meza, Domingo Mery, Claudio Cubillos (ed.), *Proc. 29 Proceedings of the International Conference of the Chilean Computer Science Society (SCCC)*, pp. 60-65, Nov 2010. Antofagasta, Chile. IEEE Computer Society Press, Los Alamitos, CA, USA.
 5. Christian Peña, Cecilia Bastarrica, Daniel Perovich. ATAM-HW: Extending ATAM for Explicitly Incorporating Hardware-Related Trade-off Decisions. In Sergio Ochoa, Federico Meza, Domingo Mery, Claudio Cubillos (ed.), *Proc. 29 Proceedings of the International Conference of the Chilean Computer Science Society (SCCC)*, pp. 119-123, Nov 2010. Antofagasta, Chile. IEEE Computer Society Press, Los Alamitos, CA, USA.
 6. Cecilia Bastarrica, Julio Ariel Hurtado, Alexandre Bergel. Toward Lean Development in Formally Specified Software Processes. In Richard Messnarz, Damjan Ekert, Mads Christiansen, Jorn Johansen, Sonja Koinig (ed.), *Proc. 18th European System & Software Process Improvement and Innovation (EuroSPI)*, pp. 5.11-5.21, Jun 2011. Roskilde, Denmark. Industrial Proceedings.
 7. Jocelyn Simmonds, Alcides Quispe, Cecilia Bastarrica, Luis Silvestre. Variability in Software Process Models: Requirements for Adoption in Industrial Settings. In J. Rubin, G. Botterweck, A. Pleuss, D. M. Weiss (ed.), *Proc. 4th Product Line Approaches in Software Engineering (PLEASE)*, pp. 33-36, May 2013. San Francisco, USA. IEEE Computer Society Press, Los Alamitos, CA, USA.
 8. Daniel Ortega, Luis Silvestre, Cecilia Bastarrica, Sergio Ochoa. A Tool for Modeling Software Development Contexts in Small Software Organizations. In Pablo Barceló, Rosa Alarcón (ed.), *Proc. 31st Proceedings of the International Conference of the Chilean Computer Science Society (SCCC)*, pp. 29-35, Nov 2012. Valparaíso, Chile. IEEE Computer Society Press, Los Alamitos, CA, USA. Post-Proceedings 2013.
 9. Luis Silvestre, Cecilia Bastarrica, Sergio Ochoa. A Model-Based Tool for Generating Software Process Model Tailoring Transformations. In Luis Ferreira Pires, Slimane Hammoudi (ed.), *Proc. 2nd International Conference on Model-Driven Engineering and Software Development (ModelsWard)*, pp. article 59, Jan 2014. Lisbon, Portugal. SCITEPress: Science and Technology Publications.

10. Cecilia Bastarrica, Jocelyn Simmonds, Luis Silvestre. Using Megamodeling to Improve Industrial Adoption of Complex MDE Solutions. In *Proc. 6th International Workshop on Models in Software Engineering (MiSE)*, pp. 31-36, Jun 2014. Hyderabad, India. ACM Press, New York, NY, USA. ISBN 978-1-4503-2849-4.
11. Luis Silvestre, Cecilia Bastarrica, Sergio Ochoa. A Usable MDE-based Tool for Software Process Tailoring. In Timothy Lethbridge, Jordi Cabot, Alexander Egyed (ed.), *Proc. 18 ACM/IEEE International Conference on Model Driven Engineering Languages and Systems (MODELS)*, pp. 36-39, Sep 2015. Springer-Verlag, Berlin/Heidelberg, Germany. LNCS. ISBN 978-1-4673-6907-7.
12. Juan Pulgar, Cecilia Bastarrica. Transforming Multi-role Activities in Software Processes into Business Processes. In Marcelo Fantinato, Marlon Dumas (ed.), *Proc. 1st Workshop on Resource Management in Business Processes (ReMa)*, pp. 372-383, Sep 2016. Río de Janeiro, Brazil. Springer Science+Business Media, Singapore, Singapore. Lecture Notes in Business Information Processing vol. 281. ISBN 978-3-319-58456-0.
13. Cecilia Bastarrica, Nancy Hitschfeld, Maira Marques, Jocelyn Simmonds. Affirmative Action for Attracting Women to STEM in Chile. In Erika Abraham, Elisabetta Di Nitto, Raffaella Mirandola (ed.), *Proc. 1st International Workshop on Gender Equality in Software Engineering (GE)*, pp. 45-48, May 2018. ACM.
14. Cecilia Bastarrica, Jocelyn Simmonds. Gender Differences in Self and Peer Assessment in a Software Engineering Capstone Course. In *Proc. 2nd International Workshop on Gender Equality in Software Engineering (GE)*, pp. 29-32, May 2019. ACM.
15. Cecilia Bastarrica, Jocelyn Simmonds. The Effects of Team Gender Composition in Capstone Software Development Projects. In *Proc. 41th Proceedings of the International Conference of the Chilean Computer Science Society (SCCC)*, pp. 1-6, Nov 2022. Santiago, Chile. IEEE Computer Society Press, Los Alamitos, CA, USA. ISBN 978-1-6654-5674-6.
16. Catalina Rojas, Cecilia Bastarrica. Women Performance in a Computer Science Program. In *Proc. 42nd Proceedings of the International Conference of the Chilean Computer Science Society (SCCC)*, Oct 2023. Concepción, Chile. IEEE Computer Society Press, Los Alamitos, CA, USA.
17. Andrés Wallberg, Daniel González, Luis Silvestre, Cecilia Bastarrica. A Tool for Modeling and Tailoring Hybrid Software Processes. In *Proc. 12th International Conference on Model-Driven Engineering and Software Development (ModelsWard)*, pp. 264-271, Feb 2024. Roma, Italia. SCITEPress: Science and Technology Publications. ISBN 978-989-758-682-8.

Type N

1. Julio Hurtado, Cecilia Bastarrica. Reuse Process Model Tailoring as a Means for Process Knowledge Reuse. In Anabel Fraga, Juan Llorens (ed.), *Proc. 2nd Workshop on Knowledge Reuse (KREUSE)*, Sep 2009. Falls Church, Virginia, USA.

2. Yenisei Delgado, Cecilia Bastarrica. Viewing an ERP as an SPL: Exploratory study. In Joao Araujo, MK Mora, Giovanni Giachetty, Claudia Ayala (ed.), *Proc. XXII Iberoamerican Conference on Software Engineering (CIBSE)*, pp. 141-154, Apr 2019. La Habana, Cuba.

Type O

1. Pedro Rossel, Cecilia Bastarrica, Nancy Hitschfeld. A Systematic Process for Defining a Meshing Tool Product Line Domain Model. In Claudia Ayala, Carla Silva, Hernán Astudillo (ed.), *Proc. 12th Workshop on Requirements Engineering (WER)*, pp. 103-114, Jul 2009. Valparaíso, Chile. Universidad Técnica Federico Santa María, Valparaíso, Chile. ISBN 978-956-319-941-3.
2. Luis Silvestre, Cecilia Bastarrica, Julio Ariel Hurtado Alegria, Jacqueline Marín. Formalizing the Goal-directed and Context-based Software Process Tailoring Method. In *Proc. 47th Latin American Conference on Informatics (CLEI)*, pp. 1-9, Oct 2021. Virtual.

Type Q

1. Cecilia Bastarrica, Nancy Hitschfeld, Pedro Rossel, César Castro. Rapidly Generating Different Meshing Tools. In Somnath Ghosh (ed.), *Proc. 10th U.S. National Congress on Computational Mechanics (USNCCM)*, Jul 2009. Columbus, Ohio, USA. U.S. Association for Computational Mechanics.