

Publications of Cecilia Bastarrica by year

Year 2009

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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. 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.
4. 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.
5. 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.
6. 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.
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8. 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.

Year 2010

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. 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.
3. 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.
4. 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.

Year 2011

1. 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.
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3. 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.
4. 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.

Year 2012

1. 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.

Year 2013

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2. 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.
3. 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.
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. 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.

Year 2014

1. 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.
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3. 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.
4. 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.

5. 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.
6. 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.
7. 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.

Year 2015

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2. 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.
3. 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.
4. 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.

Year 2016

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1. 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.
2. 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.

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1. 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.
2. 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.
3. 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.

Year 2019

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3. 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.
4. 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.

Year 2021

1. 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.
2. 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 Heldal, Masud Fazal-Baqaie, Craig Anslow, Maleknaz Nayebe, 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.
3. 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.

Year 2022

1. Cecilia Bastarrica, Jocelyn Simmonds. The Effects of Team Gender Composition in Capstone Software Development Projects. In *Proc. 41th Proceedings of the International Conference*

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Year 2023

1. 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.
2. 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.
3. 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.

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2. Jocelyn Simmonds, Cecilia Bastarrica, Nancy Hitschfeld, Pablo Villar Mascaró, Diego Wis-tuba, 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.

Year 2025

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