

## Publications of Alexandre Bergel by year

### Year 2009

1. Alexandre Bergel, Johan Fabry, ed. *Proceedings of the 8th International Symposium on Software Composition (SC)*, Jul 2009. Zurich, Switzerland. Springer-Verlag, Berlin/Heidelberg, Germany. ISBN 978-3-642-02654-6. Lecture Notes in Computer Science vol. 5634.
2. Alexandre Bergel, Lorenzo Bettini. Reverse Generics – Parametrization After the Fact. In Boris Shishkov (ed.), *Proc. 4th International Conference on Software and Data Technologies (ICSOF)*, pp. 39-46, Jul 2009. Sofia, Bulgaria. ISBN 978-989-674-009-2.
3. David Roethlisberger, Oscar Nierstrasz, Alexandre Bergel, Stéphane Ducasse. Tackling Software Navigation Issues of the Smalltalk IDE. In Alexandre Bergel and Noury Bouraqadi (ed.), *Proc. 4th International Workshop on Smalltalk Technologies (IWST)*, pp. 58-68, Aug 2009. Brest, France. ACM Press, New York, NY, USA. ISBN 978-1-60558-899-5.
4. Alexandre Bergel, Noury Bouraqadi, ed. *Proceedings of the 4th International Workshop on Smalltalk Technologies (IWST)*, Aug 2009. Brest, France. ACM Press, New York, NY, USA. ISBN 978-1-60558-899-5. ACM Digital Library.

### Year 2010

1. 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.
2. S'bastien Mosser, Alexandre Bergel, Mireille Blay-Fornarino. Visualizing and Assessing a Compositional Approach of Business Process Design. In Benoit Baudry, Eric Wohlstadt (ed.), *Proc. 9th International Symposium on Software Composition (SC)*, pp. 90-105, Jul 2010. Málaga, Spain. Springer-Verlag, Berlin/Heidelberg, Germany. Lecture Notes in Computer Science vol. 6144. ISBN 978-3-642-02654-6.
3. Alexandre Bergel, Romain Robbes, Walter Binder. Visualizing Dynamic Metrics with Profiling Blueprints. In Jan Vitek (ed.), *Proc. 48th International Conference on Objects, Models, Components, Patterns (TOOLS)*, pp. 291-309, Jun 2010. Málaga, Spain. Springer-Verlag, Berlin/Heidelberg, Germany. Lecture Notes in Computer Science. ISBN 978-989-674-009-2.
4. Jean-Baptiste Arnaud, Marcus Denker, Stéphane Ducasse, Damien Pollet, Alexandre Bergel, Mathieu Suen. Read-Only Execution for Dynamic Languages. In Jan Vitek (ed.), *Proc. 48th International Conference on Objects, Models, Components, Patterns (TOOLS)*, pp. 117-136, Jun 2010. Málaga, Spain. Springer-Verlag, Berlin/Heidelberg, Germany. Lecture Notes in Computer Science. ISBN 978-989-674-009-2.

5. 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.

## Year 2011

1. Alexandre Bergel. Reconciling Method Overloading and Dynamically Typed Scripting Languages. *Computer Languages, Systems & Structures (COMLAN)* 37(3):132-150, 2011. Elsevier Science, Amsterdam, The Netherlands. ISSN 1477-8424.
2. 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.
3. Alexandre Bergel. Counting Messages as a Proxy for Average Execution Time in Pharo. In *Proc. European Conference on Object-Oriented Programming (ECOOP)*, pp. 533-557, Jul 2011. Springer-Verlag, Berlin/Heidelberg, Germany. Lecture Notes in Computer Science vol. 6813.
4. 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.
5. Alexandre Bergel, William Harrison, Vinny Cahill, Siobhan Clarke. FlowTalk: Language Support for Long-Latency Operations in Embedded Devices. *IEEE Transactions on Software Engineering (TSE)* 37(4):526-543, Jul 2011. IEEE Computer Society Press, Los Alamitos, CA, USA. ISSN 0098-5589.
6. 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.
7. Ricardo Jacas, Alexandre Bergel. Klotz: An Agile 3D Visualization Engine. In *Proc. 6th International Workshop on Smalltalk Technologies (IWST)*, pp. 4:1-4:5, Aug 2011. Edinburgh, Scotland. ACM Press, New York, NY, USA.

## Year 2012

1. Alexandre Bergel, Felipe Bañados, Romain Robbes, David Roethlisberger. Spy: A Flexible Code Profiling Framework. *Computer Languages, Systems & Structures (COMLAN)* 38(1):16-28, Apr 2012. Elsevier Science, Amsterdam, The Netherlands. ISSN 1477-8424.

2. Jorge Ressaia, Alexandre Bergel, Oscar Nierstrasz, Lukas Renggli. Modeling Domain-Specific Profilers. *The Journal of Object Technology (JOT)* 11(1):5:1-21, Apr 2012.
3. Felipe Bañados, Romain Robbes, Alexandre Bergel, Walter Binder. Execution Profiling Blueprints. *Software: Practice and Experience* 42(9):1165-1192, Sep 2012. John Wiley & Sons, Hoboken, NJ, USA. ISSN 0038-0644.
4. Jorge Ressaia, Alexandre Bergel, Oscar Nierstrasz. Object-Centric Debugging. In *Proc. 34th ACM/IEEE International Conference on Software Engineering (ICSE)*, pp. 485-495, Jun 2012. Zurich, Switzerland. ACM Press, New York, NY, USA.

## Year 2013

1. Juan Pablo Sandoval Alcocer, Alexandre Bergel. Tracking Performance Failures with Rizel. In Romain Robbes, Gregorio Robles (ed.), *Proc. 13th International Workshop on Principles of Software Evolution (IWPSE)*, pp. 38-42, Aug 2013. Saint Petersburg, Russia. ACM Press, New York, NY, USA. Tool demo.
2. Alexandre Bergel, Lorenzo Bettini. Artifact Evaluation (summary). In Mira Mezini, Luciano Baresi (ed.), *Proc. 21st ACM SIGSOFT Symposium on Foundations of Software Engineering (FSE)*, pp. 24-25, Aug 2013. Saint Petersburg, Russia. ACM Press, New York, NY, USA. Summary of a track.
3. Johan Fabry, Alexandre Bergel. Design Decisions in AspectMaps. In Alexandru Telea, Andreas Kerren, Andrian Marcus (ed.), *Proc. 1st IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 1-4, Sep 2013. Eindhoven, Netherlands. IEEE Computer Society Press, Los Alamitos, CA, USA.
4. Juan Pablo Sandoval Alcocer, Alexandre Bergel, Stephane Ducasse, Marcus Denker. Performance Evolution Blueprint: Understanding the Impact of Software Evolution on Performance. In Alexandru Telea, Andreas Kerren, Andrian Marcus (ed.), *Proc. 1st IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 1-9, Sep 2013. Eindhoven, Netherlands. IEEE Computer Society Press, Los Alamitos, CA, USA.

## Year 2014

1. Alexandre Bergel, Vanessa Peña. Increasing Test Coverage with Hapao. *Science of Computer Programming (SCICO)* 79(1):86-100, Jan 2014. Elsevier Science, Amsterdam, The Netherlands. ISSN 0167-6423.
2. Alexandre Bergel, Stephane Ducasse, Damien Cassou, Jannik Laval. *Deep into Pharo*. 412 pages, Sep 2014. Square Bracket LLC. ISBN 978-3-9523341-6-4.
3. 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.

4. Oscar Callau, Romain Robbes, Éric Tanter, David Roethlisberger, Alexandre Bergel. On the Use of Type Predicates in Object-Oriented Software: The Case of Smalltalk. In *Proc. 10th Dynamic Languages Symposium (DLS)*, pp. 135-146, Oct 2014. Portland, OR, USA. ACM Press, New York, NY, USA.
5. Tobias Kuhn, Alexandre Bergel. Verifiable Source Code Documentation in Controlled Natural Language. *Science of Computer Programming (SCICO)* 96(1):121-140, Dec 2014. Elsevier Science, Amsterdam, The Netherlands. ISSN 0167-6423.
6. Alexandre Bergel, Sergio Maass, Tudor Girba, Stephane Ducasse. A Domain-Specific Language for Visualizing Software Dependencies as a Graph. In Andy Zaidman, Bonita Sharif (ed.), *Proc. 2nd IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 45-49, Sep 2014. Victoria, BC, Canada. IEEE Computer Society Press, Los Alamitos, CA, USA.

## Year 2015

1. Alison Fernandez, Diego Gabriel Nuñez Duran, Alejandro Infante, Alexandre Bergel. Analyzing Dynamic Information with Spy and Roassal: An Experience Report. In *Proc. 1st IEEE International Workshop on Software Analytics (SWAN)*, pp. 31-34, Mar 2015. Montréal, Canada. IEEE Computer Society Press, Los Alamitos, CA, USA.
2. Leonardo Humberto Silva, Miguel Ramos, Marco Tulio Valente, Alexandre Bergel, Nicolas Anquetil. Does JavaScript Software Embrace Classes?. In *Proc. 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)*, pp. 73-82, Mar 2015. Montréal, Canada. IEEE Computer Society Press, Los Alamitos, CA, USA.
3. Javier Luis Canovas Izquierdo, Valerio Cosentino, Belen Rolandi, Alexandre Bergel, Jordi Cabot. GiLA: GitHub Label Analyzer. In *Proc. 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)*, pp. 479-483, Mar 2015. Montréal, Canada. IEEE Computer Society Press, Los Alamitos, CA, USA. ERA track.
4. Alejandro Infante, Alexandre Bergel. Efficiently identifying object production sites. In *Proc. 22nd IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)*, pp. 575-579, Mar 2015. Montréal, Canada. IEEE Computer Society Press, Los Alamitos, CA, USA. ERA track.
5. Oscar Callau, Romain Robbes, Éric Tanter, David Roethlisberger, Alexandre Bergel. On the Use of Type Predicates in Object-Oriented Software: The Case of Smalltalk. *ACM SIGPLAN Notices (SIGPLAN)* 50(2):135-146, Feb 2015. ACM Press, New York, NY, USA. ISSN 0362-1340.
6. Alvaro Jose Peralta, Nguyen Tuan Thanh Le, Serge Stinckwich, Chihab Hanachi, Alexandre Bergel, Tuong Vinh Ho. A Tool for Assessing Quality of Rescue Plans by Combining Visualizations of Different Business Process Perspectives. In *Proc. 2nd International Conference on Information Systems for Crisis Response And Management (ISCRAM-med)*, pp. 155-166, Oct 2015. Tunisia. Springer-Verlag, Berlin/Heidelberg, Germany.

7. Juan Pablo Sandoval Alcocer, Alexandre Bergel. Tracking Down Performance Variation against Source Code Evolution. In *Proc. 11th Dynamic Languages Symposium (DLS)*, pp. 129-139, Oct 2015. Pittsburg, USA. ACM Press, New York, NY, USA.
8. Simon Urli, Alexandre Bergel, Mireille Blay-Fornarino, Philippe Collet, Sébastien Mosser. A Visual Support for Decomposing Complex Feature Models. In *Proc. 3rd IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 76-85, Sep 2015. Bremen, Germany. IEEE Computer Society Press, Los Alamitos, CA, USA.
9. Juraj Kubelka, Alexandre Bergel, Andrei Chis, Tudor Girba, Stefan Reichhart, Romain Robbes, Aliaksei Syrel. On understanding how developers use the Spotter search tool. In *Proc. 3rd IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 145-149, Sep 2015. Bremen, Germany. IEEE Computer Society Press, Los Alamitos, CA, USA.
10. Paloma Oliveira, Marco Tulio Valente, Alexandre Bergel, Alexander Serebrenik. Validating Metric Thresholds with Developers: An Early Result. In *Proc. 31st IEEE International Conference on Software Maintenance (ICSM)*, pp. 546-550, Sep 2015. Bremen, Germany. IEEE Press, Piscataway, NJ, USA. ISBN 978-1-4673-7532-0. ERA track.

## Year 2016

1. Santiago Vidal, Alexandre Bergel, Claudia Marcos, J. Andrés Díaz-Pace. Understanding and addressing exhibitionism in Java empirical research about method accessibility. *Empirical Software Engineering (EMSE)* 21(2):483-516, Apr 2016. Springer-Verlag, Berlin/Heidelberg, Germany. ISSN 1382-3256.
2. Juan Pablo Sandoval Alcocer, Alexandre Bergel, Marco Tulio Valente. Learning from Source Code History to Identify Performance Failures. In Xiaoyun Zhu, Steffen Becker (ed.), *Proc. 7th ACM/SPEC on International Conference on Performance Engineering (ICPE)*, pp. 37-48, Mar 2016. Delft, The Netherlands. ACM Press, New York, NY, USA.
3. Juan Pablo Sandoval Alcocer, Alexandre Bergel. Tracking Down Performance Variation Against Source Code Evolution. *ACM SIGPLAN Notices (SIGPLAN)* 51(2):129-139, Feb 2016. ACM Press, New York, NY, USA. ISSN 0362-1340.
4. Ignacio Fernandez, Alexandre Bergel, Juan Pablo Sandoval Alcocer, Alejandro Infante, Tudor Girba. Glyph-based Software Component Identification. In Jonathan I. Malefic, Gabriele Bavota (ed.), *Proc. 24th IEEE International Conference on Program Comprehension (ICPC)*, May 2016. Austin, Texas. IEEE Computer Society Press, Los Alamitos, CA, USA.
5. Alexandre Bergel. *Agile Visualization*. 235 pages, Aug 2016. Lulu Press Inc.. ISBN 9781365314094.
6. Juan Pablo Sandoval Alcocer, Marcus Denker, Alexandre Bergel, Yasett Acurana. Dynamically Composing Collection Operations through Collection Promises. In *Proc. 11th International Workshop on Smalltalk Technologies (IWST)*, pp. article 8, Aug 2016. Prague, Czech Republic. ACM Press, New York, NY, USA.

7. Alexandre Bergel. Energy Code Profiling in Pharo. In *Proc. 11th International Workshop on Smalltalk Technologies (IWST)*, pp. article 24, Aug 2016. Prague, Czech Republic. ACM Press, New York, NY, USA.
8. Rodrigo Schulz, Fabian Beck, Johnny Wilder Cerezo Felipez, Alexandre Bergel. Visually Exploring Object Mutation. In Johan Fabry, Christopher Parnin (ed.), *Proc. 4th IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 21-25, Oct 2016. Raleigh, EEUU. IEEE Computer Society Press, Los Alamitos, CA, USA. ERA track.
9. Teseo Schneider, Yuriy Tymchuk, Ronie Salgado, Alexandre Bergel. CuboidMatrix: Exploring Dynamic Structural Connections in Software Components Using Space-Time Cube. In Johan Fabry, Christopher Parnin (ed.), *Proc. 4th IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 116-125, Oct 2016. Raleigh, EEUU. IEEE Computer Society Press, Los Alamitos, CA, USA.
10. Leonel Merino, Mohammad Ghafari, Oscar Nierstrasz, Alexandre Bergel, Juraj Kubelka. MetaVis: Exploring Actionable Visualization. In Johan Fabry, Christopher Parnin (ed.), *Proc. 4th IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 151-155, Oct 2016. Raleigh, EEUU. IEEE Computer Society Press, Los Alamitos, CA, USA.
11. Santiago Vidal, Alexandre Bergel, J. Andrés Díaz-Pace, Claudia Marcos. Over-exposed Classes in Java: An Empirical Study. *Computer Languages, Systems & Structures (COM-LAN)* 46:1-19, Nov 2016. Elsevier Science, Amsterdam, The Netherlands. ISSN 1477-8424.

## Year 2017

1. Leonardo Humberto Silva, Marco Tulio Valente, Alexandre Bergel. Refactoring Legacy JavaScript Code to Use Classes: The Good, The Bad and The Ugly. In *Proc. 16th International Conference on Software Reuse (ICSR)*, pp. 155-171, May 2017. Brazil. Springer-Verlag, Berlin/Heidelberg, Germany. Lecture Notes in Computer Science.
2. Leonardo Humberto Silva, Marco Tulio Valente, Alexandre Bergel. Statically Identifying Class Dependencies in Legacy JavaScript Systems: First Results. In Gabriele Bavota, Andrian Marcus (ed.), *Proc. 24th IEEE International Conference on Software Analysis, Evolution, and Reengineering (SANER)*, pp. 427-431, Feb 2017. Austria. IEEE Computer Society Press, Los Alamitos, CA, USA.
3. Alexandre Bergel, Fabian Beck, ed. Special Section on Software Visualization. *Information and Software Technology (IST)* 87:221-222, Jul 2017. Elsevier Science, Amsterdam, The Netherlands. ISSN 0950-5849.
4. Leonardo Humberto Silva, Marco Tulio Valente, Alexandre Bergel, Nicolas Anquetil, Anne Etien. Identifying Classes in Legacy JavaScript Code. *Journal of Software: Evolution and Process (JSEP)* 29(8):article e1864, Aug 2017. John Wiley & Sons, Hoboken, NJ, USA. ISSN 2047-7481.

5. Sophie Kaleba, Clément Béra, Alexandre Bergel, Stephane Ducasse. A Detailed VM Profiler for the Cog VM. In *Proc. 12th International Workshop on Smalltalk Technologies (IWST)*, pp. article 6, Sep 2017. Maribor, Slovenia. ACM Press, New York, NY, USA.
6. Ronie Salgado, Alexandre Bergel. Pharo Git Thermite: A Visual Tool for Deciding to Weld a Pull Request. In *Proc. 12th International Workshop on Smalltalk Technologies (IWST)*, pp. article 11, Sep 2017. Maribor, Slovenia. ACM Press, New York, NY, USA.
7. Fabian Beck, Hafiz Ammar Siddiqui, Alexandre Bergel. Method Execution Reports: Generating Text and Visualization to Describe Program Behavior. In *Proc. 5th IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 1-10, Sep 2017. Shanghai, China. IEEE Computer Society Press, Los Alamitos, CA, USA.
8. Alejandro Infante, Alexandre Bergel. Object Equivalence: Revisiting Object Equality Proving (An Experience Report). *ACM SIGPLAN Notices (SIGPLAN)* 52(11):27-38, Nov 2017. ACM Press, New York, NY, USA. ISSN 0362-1340.

## Year 2018

1. Alison Fernandez, Alexandre Bergel. A Domain-specific Language to Visualize Software Evolution. *Information and Software Technology (IST)* 98:118-130, Jun 2018. Elsevier Science, Amsterdam, The Netherlands. ISSN 0950-5849.
2. Alexandre Bergel, Alejandro Infante, Sergio Maass, Juan Pablo Sandoval Alcocer. Reducing Resource Consumption of Expandable Collections: The Pharo Case. *Science of Computer Programming (SCICO)* 161:34-56, Sep 2018. Elsevier Science, Amsterdam, The Netherlands. ISSN 0167-6423.
3. Juraj Kubelka, Romain Robbes, Alexandre Bergel. The Road to Live Programming: Insights from the Practice. In *Proc. 40th ACM/IEEE International Conference on Software Engineering (ICSE)*, pp. 1090-1101, May 2018. Gothenburg, Sweden. ACM Press, New York, NY, USA.
4. Guillermo de la Torre, Romain Robbes, Alexandre Bergel. Imprecisions Diagnostic in Source Code Deltas. In *Proc. 15th IEEE Working Conference on Mining Software Repositories (MSR)*, pp. 492-502, May 2018. Gothenburg, Sweden. ACM Press, New York, NY, USA.
5. Alison Fernandez, Juan Pablo Sandoval Alcocer, Alexandre Bergel. Effective Visualization of Object Allocation Sites. In *Proc. 6th IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 43-53, Sep 2018. Madrid, Spain. IEEE Computer Society Press, Los Alamitos, CA, USA.

## Year 2019

1. Hernán Ceferino Vázquez, Alexandre Bergel, Santiago Vidal, J. Andrés Díaz-Pace, Claudia Marcos. Slimming Javascript Applications: An Approach for Removing Unused Functions

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2. Juan Pablo Sandoval Alcocer, Fabian Beck, Alexandre Bergel. Performance Evolution Matrix: Visualizing Performance Variations along Software Versions. In *Proc. 7th IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 1-11, Sep 2019. Cleveland, USA. IEEE Computer Society Press, Los Alamitos, CA, USA.
3. Miguel Campusano, Johan Fabry, Alexandre Bergel. Live Programming in Practice: a Controlled Experiment on State Machines for Robotic Behaviors. *Information and Software Technology (IST)* 108:99-114, Apr 2019. Elsevier Science, Amsterdam, The Netherlands. ISSN 0950-5849.
4. Leonel Merino, Mario Hess, Alexandre Bergel, Oscar Nierstrasz, Daniel Weiskopf. PerfVis: Pervasive Visualization in Immersive Augmented Reality for Performance Awareness. In *Proc. 10th ACM/SPEC on International Conference on Performance Engineering (ICPE)*, pp. 13-16, Apr 2019. Mumbai, India. ACM Press, New York, NY, USA.
5. Rodrigo Delgado, Alexandre Bergel. Continuation to the Rescue: Seamlessly Handling Battery Interruption in Drones. In Chun-Ming Chang, Daniela D’Auria, Eric Matson, Giovanni Pilato (ed.), *Proc. 3rd IEEE International Conference on Robotic Computing (IRC)*, pp. 419-420, Feb 2019. Naples, Italy.
6. Miguel Campusano, Alexandre Bergel. VizRob: Effective Visualizations to Debug Robotic Behaviors. In Chun-Ming Chang, Daniela D’Auria, Eric Matson, Giovanni Pilato (ed.), *Proc. 3rd IEEE International Conference on Robotic Computing (IRC)*, pp. 86-93, Feb 2019. Naples, Italy.
7. Jhonny Cerezo, Juraj Kubelka, Romain Robbes, Alexandre Bergel. Building an Expert Recommender Chatbot. In Emad Shihab, Stefan Wagner (ed.), *Proc. 1st International Workshop on Bots in Software Engineering (BotSE)*, pp. 59-63, May 2019. Montreal, Canada.
8. Carlos E Gonzalez, Camilo J Rojas, Alexandre Bergel, Marcos A Diaz. An Architecture-Tracking Approach to Evaluate a Modular and Extensible Flight Software for CubeSat Nanosatellites. *IEEE Access* 7:126409-126429, 2019. IEEE Computer Society Press, Los Alamitos, CA, USA. ISSN 2169-3536.
9. Juan Pablo Sandoval Alcocer, Harold Camacho Jaime, Diego Costa, Alexandre Bergel, Fabian Beck. Enhancing Commit Graphs with Visual Runtime Clues. In *Proc. 7th IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 28-32, Sep 2019. Cleveland, USA. IEEE Computer Society Press, Los Alamitos, CA, USA.
10. Juraj Kubelka, Romain Robbes, Alexandre Bergel. Live Programming and Software Evolution: Questions During a Programming Change Task. In *Proc. 27th IEEE International Conference on Program Comprehension (ICPC)*, pp. 30-41, May 2019. Montreal, Canada. IEEE Computer Society Press, Los Alamitos, CA, USA.

## Year 2020

1. Alexandre Bergel. *Agile Artificial Intelligence in Pharo*. 386 pages, Jul 2020. Apress, One New York Plaza, Suite 4600, New York. ISBN 978-1-4842-5383-0.
2. Martin Dias, Diego Orellana, Santiago Vidal, Leonel Merino, Alexandre Bergel. Evaluating a Visual Approach for Understanding JavaScript Source Code. In *Proc. 28th IEEE International Conference on Program Comprehension (ICPC)*, pp. 128-138, Jul 2020. Online. IEEE Computer Society Press, Los Alamitos, CA, USA.
3. Alejandra Cossio Chavalier, Juan Pablo Sandoval Alcocer, Alexandre Bergel. Assessing Textual Source Code Comparison: Split Or Unified?. In Leonel Merino, Alexandre Bergel (ed.), *Proc. 1st International Workshop on New Interfaces for Programming (NIP)*, pp. 50-54, Mar 2020. Porto, Portugal.
4. Leonel Merino, Boris Sotomayor-Gómez, Xingyao Yu, Ronie Salgado, Alexandre Bergel, Michael Sedlmair, Daniel Weiskopf. Toward Agile Situated Visualization: An Exploratory User Study. In *Proc. ACM Conference on Human Factors in Computing Systems (CHI)*, pp. 1-7, 2020. Hawai. ACM Press, New York, NY, USA.
5. Daniel Soto, Alexandre Bergel, Alejandro Hevia. Fuzzing to Estimate Gas Costs of Ethereum Contracts. In *Proc. IEEE International Conference on Software Maintenance (ICSM)*, pp. 687-691, Sep 2020. Adelaide, Australia. IEEE Press, Piscataway, NJ, USA. ISBN 978-1-7281-5620-0.
6. Juan Pablo Sandoval Alcocer, Alexandre Bergel, Marco Tulio Valente. Prioritizing Versions for Performance Regression Testing: The Pharo Case. *Science of Computer Programming (SCICO)* 191:article 102415, Jun 2020. Elsevier Science, Amsterdam, The Netherlands. ISSN 0167-6423.
7. Juan Pablo Sandoval Alcocer, Alejandra Cossio Chavalier, Gustavo Santos, Alexandre Bergel. Improving the Success Rate of Applying the Extract Method Refactoring. *Science of Computer Programming (SCICO)* 195:article 102475, Sep 2020. Elsevier Science, Amsterdam, The Netherlands. ISSN 0167-6423.
8. Truong Ho-Quang, Alexandre Bergel, Arif Nurwidyanoro, Rodi Jolak, Michel Chaudron. Interactive Role Stereotype-Based Visualization To Comprehend Software Architecture. In *Proc. 8th IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 122-132, Sep 2020. Online. IEEE Computer Society Press, Los Alamitos, CA, USA.
9. Andreina Cota Vidaure, Evelyn Cusi Lopez, Juan Pablo Sandoval Alcocer, Alexandre Bergel. TestEvoViz: Visual Introspection for Genetically-Based Test Coverage Evolution. In *Proc. 8th IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 1-11, Sep 2020. Online. IEEE Computer Society Press, Los Alamitos, CA, USA.

## Year 2021

1. Jhonny Cerezo, Alexandre Bergel, Felipe Bravo-Marquez. FAQ(current) Corrections(current) Submissions(current) Tools Impact on the Quality of Annotations for Chat Untangling. In *Proc. Conference of the Association for Computational Linguistics: Student Research Workshop (ACL-SRW)*, pp. 215-220, 2021. Association for Computational Linguistic.
2. Alexandre Bergel. *Agile Visualization with Pharo*. 266 pages, Dec 2021. Apress, One New York Plaza, Suite 4600, New York. ISBN 978-1-4842-7160-5.
3. Pooja Rani, Suada Abukar, Nataliia Stulova, Alexandre Bergel, Oscar Nierstrasz. Do Comments follow Commenting Conventions? A Case Study in Java and Python. In *Proc. 21th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM)*, pp. 165-169, Sep 2021. virtual. IEEE Press, Piscataway, NJ, USA.
4. Céline Deknop, Kim Mens, Alexandre Bergel, Johan Fabry, Vadim Zaytsev. A Scalable Log Differencing Visualisation Applied to COBOL Refactoring. In *Proc. 9th IEEE Working Conference on Software Visualization (VISSOFT)*, pp. 1-11, Sep 2021. Virtual. IEEE Computer Society Press, Los Alamitos, CA, USA.
5. Tamara Gutierrez, Alexandre Bergel, Carlos E Gonzalez, Camilo J Rojas, Marcos A Diaz. Systematic Fuzz Testing Techniques on a Nanosatellite Flight Software for Agile Mission Development. *IEEE Access* 9:114008-114021, Aug 2021. IEEE Computer Society Press, Los Alamitos, CA, USA. ISSN 2169-3536.
6. Rodrigo Delgado, Miguel Campusano, Alexandre Bergel. Fuzz Testing in Behavior-Based Robotics. In *Proc. IEEE International Conference on Robotics and Automation (ICRA)*, pp. 9375-9381, May 2021. Xi'an, China.