

Miguel Velez

Publications

Books

- [47] R. E. Bryant and D. R. O'Hallaron. *Computer Systems: A Programmer's Perspective*. 3rd. Pearson, 2015.
- [46] S. Apel, D. Batory, C. Kästner, and G. Saake. *Feature-Oriented Software Product Lines: Concepts and Implementation*. Berlin/Heidelberg, Germany: Springer-Verlag, 2013.
- [45] A. Downey. *Think Bayes*. "O'Reilly Media, Inc.", 2013.
- [44] D. R. Kuhn, R. N. Kacker, and Y. Lei. *Introduction to Combinatorial Testing*. 1st. Chapman & Hall/CRC, 2013.
- [43] T. Lindholm, F. Yellin, G. Bracha, and A. Buckley. *The Java Virtual Machine Specification, Java SE 7 Edition*. 1st. Addison-Wesley Professional, 2013.
- [42] T. Parr. *The Definitive ANTLR 4 Reference*. 2nd. Pragmatic Bookshelf, 2013.
- [41] A. Brown and G. Wilson. *The Architecture of Open Source Applications, Volume II. The Architecture of Open Source Applications v. 2*. Kristian Hermansen, 2012.
- [40] A. V. Levitin. *Introduction to the Design and Analysis of Algorithms (3rd Edition)*. Boston, MA, USA: Addison-Wesley, 2012.
- [39] J. Mongan, N. Suojanen, and E. Giguere. *Programming Interviews Exposed*. Wiley Publishing, Inc., 2012.
- [38] K. P. Murphy. *Machine Learning: A Probabilistic Perspective*. MIT Press, 2012.
- [37] H. J. Seltman. *Experimental Design and Analysis*. Carnegie Mellon University, 2012.
- [36] A. Brown and G. Wilson. *The Architecture of Open Source Applications, Volume I. The Architecture of Open Source Applications v. 1*. CreativeCommons, 2011.
- [35] M. Odersky, L. Spoon, and B. Venners. *Programming in Scala: A Comprehensive Step-by-Step Guide, 2nd Edition*. 2nd. USA: Artima Incorporation, 2011.
- [34] I. H. Witten, E. Frank, and M. A. Hall. *Data Mining: Practical Machine Learning Tools and Techniques*. 3rd. San Francisco, CA, USA: Morgan Kaufmann Publishers Inc., 2011.
- [33] F. P. Brooks. *The Design of Design: Essays from a Computer Scientist*. 1st. Addison-Wesley Professional, 2010.
- [32] F. Nielson, H. R. Nielson, and C. Hankin. *Principles of Program Analysis*. Springer Publishing Company, Incorporated, 2010.

- [31] T. H. Cormen, C. E. Leiserson, R. L. Rivest, and C. Stein. *Introduction to Algorithms, Third Edition*. 3rd. MIT Press, 2009.
- [30] T. Parr. *Language Implementation Patterns: Create Your Own Domain-Specific and General Programming Languages*. 1st. Pragmatic Bookshelf, 2009.
- [29] R. Yin. *Case Study Research: Design and Methods*. 4th. Applied Social Research Methods. SAGE Publications, 2009.
- [28] M. Herlihy and N. Shavit. *The Art of Multiprocessor Programming*. San Francisco, CA, USA: Morgan Kaufmann Publishers Inc., 2008.
- [27] R. Williams. *The Non-designer's Design Book, Third Edition*. Third. Berkeley, CA, USA: Peachpit Press, 2008.
- [26] T. Parr. *The Definitive ANTLR Reference: Building Domain-Specific Languages*. Pragmatic Bookshelf, 2007.
- [25] F. Shull, J. Singer, and D. I. Sjøberg. *Guide to Advanced Empirical Software Engineering*. Secaucus, NJ, USA: Springer-Verlag New York, Inc., 2007.
- [24] A. V. Aho, M. S. Lam, R. Sethi, and J. D. Ullman. *Compilers: Principles, Techniques, and Tools (2nd Edition)*. Boston, MA, USA: Addison-Wesley, 2006.
- [23] C. M. Bishop. *Pattern Recognition and Machine Learning (Information Science and Statistics)*. Secaucus, NJ, USA: Springer-Verlag New York, Inc., 2006.
- [22] P. Feiler, K. Sullivan, K. Wallnau, R. Gabriel, J. Goodenough, R. Linger, T. Longstaff, R. Kazman, M. Klein, L. Northrop, and D. Schmidt. *Ultra-Large-Scale Systems: The Software Challenge of the Future*. Software Engineering Institute, Carnegie Mellon University, 2006.
- [21] D. C. Montgomery. *Design and Analysis of Experiments*. John Wiley & Sons, 2006.
- [20] S. Krishnamurthi. *Programming Languages: Application and Interpretation*. e-book, 2003.
- [19] R. Laddad. *AspectJ in Action: Practical Aspect-Oriented Programming*. Greenwich, CT, USA: Manning Publications, 2003.
- [18] P. Clements, B. Felix, L. Bass, D. Garlan, J. Ivers, R. Little, P. Merson, R. Nord, and J. Stafford. *Documenting Software Architectures: Views and Beyond*. Pearson Education, 2002.
- [17] P. Clements and L. Northrop. *Software Product Lines*. Addison-Wesley, 2002.
- [16] D. J. C. MacKay. *Information Theory, Inference & Learning Algorithms*. New York, NY, USA: Cambridge University Press, 2002.
- [15] A. Shalloway and J. R. Trott. *Design Patterns Explained: A New Perspective on Object-Oriented Design*. Boston, MA, USA: Addison-Wesley, 2002.
- [14] C. Szyperski. *Component Software: Beyond Object-Oriented Programming*. 2nd. Boston, MA, USA: Addison-Wesley, 2002.

- [13] K. Czarnecki and U. Eisenecker. *Generative Programming: Methods, Tools, and Applications*. New York, NY, USA: ACM Press/ Addison-Wesley, 2000.
- [12] C. Wohlin, P. Runeson, M. Höst, M. C. Ohlsson, B. Regnell, and A. Wesslén. *Experimentation in Software Engineering: An Introduction*. Norwell, MA, USA: Kluwer Academic Publishers, 2000.
- [11] D. E. Knuth. *The Art of Computer Programming, Volume 3: (2Nd Ed.) Sorting and Searching*. Redwood City, CA, USA: Addison-Wesley, 1998.
- [10] D. E. Knuth. *The Art of Computer Programming, Volume 1 (3rd Ed.): Fundamental Algorithms*. Redwood City, CA, USA: Addison-Wesley, 1997.
- [9] D. E. Knuth. *The Art of Computer Programming, Volume 2 (3rd Ed.): Seminumerical Algorithms*. Boston, MA, USA: Addison-Wesley, 1997.
- [8] T. M. Mitchell. *Machine Learning*. 1st. New York, NY, USA: McGraw-Hill, Inc., 1997.
- [7] H. Abelson and G. J. Sussman. *Structure and Interpretation of Computer Programs*. 2nd. Cambridge, MA, USA: MIT Press, 1996.
- [6] M. Shaw and D. Garlan. *Software Architecture: Perspectives on an Emerging Discipline*. Upper Saddle River, NJ, USA: Prentice-Hall, Inc., 1996.
- [5] H. A. Simon. *The Sciences of the Artificial (3rd Ed.)*. Cambridge, MA, USA: MIT Press, 1996.
- [4] F. P. Brooks Jr. *The Mythical Man-Month*. anniversary. Boston, MA, USA: Addison-Wesley, 1995.
- [3] E. Gamma, R. Helm, R. Johnson, and J. Vlissides. *Design Patterns: Elements of Reusable Object-oriented Software*. Boston, MA, USA: Addison-Wesley Longman Publishing Co., Inc., 1995.
- [2] D. P. Siewiorek, C. G. Bell, and A. Newell. *Computer structures: principles and examples*. McGraw-Hill computer science series. McGraw-Hill, 1987. Chap. 2, Levels and Abstraction.
- [1] P. Naur and B. Randell. *Software Engineering: Report of a Conference Sponsored by the NATO Science Committee, Garmisch, Germany, 7-11 Oct. 1968, Brussels, Scientific Affairs Division, NATO*. NATO, 1969.

Refereed Journal Articles

- [71] S. Kolesnikov, N. Siegmund, C. Kästner, A. Grebhahn, and S. Apel. “Tradeoffs in modeling performance of highly configurable software systems”. In *Software and System Modeling (SoSyM)* (Feb. 2018).
- [70] I. Abal, J. Melo, bibinitperiod Stănciulescu, C. Brabrand, M. Ribeiro, and A. Wąsowski. “Variability Bugs in Highly Configurable Systems: A Qualitative Analysis”. In *ACM Trans. Softw. Eng. Methodol. (TOSEM)* 26.3 (Jan. 2018), 10:1–10:34.
- [69] M. Lillack, C. Kästner, and E. Bodden. “Tracking Load-time Configuration Options”. In *IEEE Transactions on Software Engineering* (2017).
- [68] A. Tomkins, M. Zhang, and W. D. Heavlin. “Single versus Double Blind Reviewing at WSDM 2017”. In *CoRR* abs/1702.00502 (2017).
- [67] S. Price and P. A. Flach. “Computational Support for Academic Peer Review: A Perspective from Artificial Intelligence”. In *Commun. ACM* 60.3 (Feb. 2017), pp. 70–79.
- [66] M. Balog, A. L. Gaunt, M. Brockschmidt, S. Nowozin, and D. Tarlow. “Deepcoder: Learning to write programs”. In *arXiv preprint arXiv:1611.01989* (2016).
- [65] N. Polikarpova, J. Yang, S. Itzhaky, and A. Solar-Lezama. “Type-Driven Repair for Information Flow Security”. In *CoRR* abs/1607.03445 (2016).
- [64] B. A. Myers, A. J. Ko, T. D. LaToza, and Y. Yoon. “Programmers Are Users Too: Human-Centered Methods for Improving Programming Tools”. In *Computer* 49.7 (July 2016), pp. 44–52.
- [63] B. A. Myers and J. Stylos. “Improving API Usability”. In *Commun. ACM* 59.6 (May 2016), pp. 62–69.
- [62] K.-J. Stol and B. Fitzgerald. “Theory-Oriented Software Engineering”. In *Science of Computer Programming* 101 (Apr. 2015).
- [61] J. Bell and G. Kaiser. “Phosphor: Illuminating Dynamic Data Flow in Commodity Jvms”. In *SIGPLAN Notices* 49.10 (Oct. 2014), pp. 83–101.
- [60] T. Thüm, S. Apel, C. Kästner, I. Schaefer, and G. Saake. “A Classification and Survey of Analysis Strategies for Software Product Lines”. In *ACM Comput. Surv. (CSUR)* 47.1 (June 2014), 6:1–6:45.
- [59] J. M. Barnes, D. Garlan, and B. Schmerl. “Evolution Styles: Foundations and Models for Software Architecture Evolution”. In *Softw. Syst. Model. (SoSyM)* 13.2 (May 2014), pp. 649–678.
- [58] A. Narayanan and S. Vallor. “Why Software Engineering Courses Should Include Ethics Coverage”. In *Commun. ACM* 57.3 (Mar. 2014), pp. 23–25.
- [57] A. Narayanan and S. Vallor. “Why Software Engineering Courses Should Include Ethics Coverage”. In *Commun. ACM* 57.3 (Mar. 2014), pp. 23–25.

- [56] F. Hutter, L. Xu, H. H. Hoos, and K. Leyton-Brown. "Algorithm Runtime Prediction: Methods & Evaluation". In *Artif. Intell.* 206 (Jan. 2014), pp. 79–111.
- [55] F. Konietzschke, L. A. Hothorn, and E. Brunner. "Rank-based multiple test procedures and simultaneous confidence intervals". In *Electronic Journal of Statistics* 6 (2012), pp. 738–759.
- [54] N. Siegmund, M. Rosenmüller, M. Kuhlemann, C. Kästner, S. Apel, and G. Saake. "SPL Conqueror: Toward Optimization of Non-functional Properties in Software Product Lines". In *Software Quality Journal* 20.3-4 (Sept. 2012), pp. 487–517.
- [53] H. H. Hoos. "Programming by Optimization". In *Commun. ACM* 55.2 (Feb. 2012), pp. 70–80.
- [52] T. Ball, V. Levin, and S. K. Rajamani. "A Decade of Software Model Checking with SLAM". In *Commun. ACM* 54.7 (July 2011), pp. 68–76.
- [51] G. Bell and D. P. Siewiorek. "The Book Computer Structures: Thoughts After 40 Years". In *IEEE Ann. Hist. Comput.* 33.2 (Apr. 2011), pp. 89–95.
- [50] B. J. Garvin, M. B. Cohen, and M. B. Dwyer. "Evaluating Improvements to a Meta-heuristic Search for Constrained Interaction Testing". In *Empirical Softw. Engg.* 16.1 (Feb. 2011), pp. 61–102.
- [49] C. Nie and H. Leung. "A Survey of Combinatorial Testing". In *ACM Comput. Surv. (CSUR)* 43.2 (Feb. 2011), 11:1–11:29.
- [48] A. Bessey, K. Block, B. Chelf, A. Chou, B. Fulton, S. Hallem, C. Henri-Gros, A. Kamsky, S. McPeak, and D. Engler. "A Few Billion Lines of Code Later: Using Static Analysis to Find Bugs in the Real World". In *Commun. ACM* 53.2 (Feb. 2010), pp. 66–75.
- [47] P. Zave. "Modularity in distributed feature composition". In *Software Requirements and Design: The Work of Michael Jackson* (2009), pp. 267–290.
- [46] N. Ayewah, D. Hovemeyer, J. D. Morgenthaler, J. Penix, and W. Pugh. "Using Static Analysis to Find Bugs". In *IEEE Softw.* 25.5 (Sept. 2008), pp. 22–29.
- [45] M. B. Cohen, M. B. Dwyer, and J. Shi. "Constructing Interaction Test Suites for Highly-Configurable Systems in the Presence of Constraints: A Greedy Approach". In *IEEE Trans. Softw. Eng. (TSE)* 34.5 (Sept. 2008), pp. 633–650.
- [44] Y. Lei, R. Kacker, D. R. Kuhn, V. Okun, and J. Lawrence. "IPOG-IPOG-D: Efficient Test Generation for Multi-way Combinatorial Testing". In *Softw. Test. Verif. Reliab.* 18.3 (Sept. 2008), pp. 125–148.
- [43] A. Nhlabatsi, R. Laney, and B. Nuseibeh. "Feature Interaction: The Security Threat from within Software Systems". In *Progress in Informatics* 5 (Mar. 2008), pp. 75–89.
- [42] J. Donath. "Signals in Social Supernets". In *J. Comp.-Med. Commun.* 13.1 (Oct. 2007), pp. 231–251.

- [41] A. Georges, D. Buytaert, and L. Eeckhout. "Statistically Rigorous Java Performance Evaluation". In *SIGPLAN Notices* 42.10 (Oct. 2007), pp. 57–76.
- [40] W. Visser. "Designing as construction of representations: A dynamic viewpoint in cognitive design research". In *Human–Computer Interaction* 21.1 (Dec. 2006), pp. 103–152.
- [39] B. Schmerl, J. Aldrich, D. Garlan, R. Kazman, and H. Yan. "Discovering Architectures from Running Systems". In *IEEE Trans. Softw. Eng. (TSE)* 32.7 (July 2006), pp. 454–466.
- [38] D. P. Siewiorek and P. Narasimhan. "Fault-tolerant architectures for space and avionics applications". In *NASA Ames Research* (2005).
- [37] N. Ducheneaut. "Socialization in an Open Source Software Community: A Socio-Technical Analysis". In *Comput. Supported Coop. Work* 14.4 (Aug. 2005), pp. 323–368.
- [36] J. F. Maranzano, S. A. Rozsypal, G. H. Zimmerman, G. W. Warnken, P. E. Wirth, and D. M. Weiss. "Architecture Reviews: Practice and Experience". In *IEEE Softw.* 22.2 (Mar. 2005), pp. 34–43.
- [35] D. Garlan, S.-W. Cheng, A.-C. Huang, B. Schmerl, and P. Steenkiste. "Rainbow: Architecture-Based Self-Adaptation with Reusable Infrastructure". In *Computer* 37.10 (Oct. 2004), pp. 46–54.
- [34] D. Batory, J. N. Sarvela, and A. Rauschmayer. "Scaling Step-wise Refinement". In *IEEE Trans. Softw. Eng. (TSE)* 30.6 (June 2004), pp. 355–371.
- [33] D. P. Siewiorek, R. Chillarege, and Z. T. Kalbarczyk. "Reflections on Industry Trends and Experimental Research in Dependability". In *IEEE Trans. Dependable Secur. Comput.* 1.2 (Apr. 2004), pp. 109–127.
- [32] E. Bruneton, R. Lenglet, and T. Coupaye. "ASM: a code manipulation tool to implement adaptable systems". In *Adaptable and extensible component systems* 30.19 (2002).
- [31] J. Lerner and J. Tirole. "Some Simple Economics of Open Source". In *The Journal of Industrial Economics* 50.2 (2002), pp. 197–234.
- [30] G. Tasse. "The economic impacts of inadequate infrastructure for software testing". In *National Institute of Standards and Technology, RTI Project 7007.011* (2002).
- [29] A. Mockus, R. T. Fielding, and J. D. Herbsleb. "Two Case Studies of Open Source Software Development: Apache and Mozilla". In *ACM Trans. Softw. Eng. Methodol. (TOSEM)* 11.3 (July 2002), pp. 309–346.
- [28] A. Zeller. "Yesterday, My Program Worked. Today, It Does Not. Why?" In *SIGSOFT Softw. Eng. Notes* 24.6 (Oct. 1999), pp. 253–267.
- [27] G. C. Murphy and D. Notkin. "Reengineering with Reflexion Models: A Case Study". In *Computer* 30.8 (Aug. 1997), pp. 29–36.
- [26] J. Wang and C. J. Wu. "A hidden projection property of Plackett-Burman and related designs". In *Statistica Sinica* (1995), pp. 235–250.

- [25] D. Garlan, R. Allen, and J. Ockerbloom. "Architectural Mismatch: Why Reuse Is So Hard". In *IEEE Softw.* 12.6 (Nov. 1995), pp. 17–26.
- [24] R. E. Kraut and L. A. Streeter. "Coordination in Software Development". In *Commun. ACM* 38.3 (Mar. 1995), pp. 69–81.
- [23] V. R. B.-G. Caldiera and H. D. Rombach. "Goal question metric paradigm". In *Encyclopedia of Software Engineering* 1 (1994), pp. 528–532.
- [22] V. Tiwari, S. Malik, and A. Wolfe. "Power analysis of embedded software: a first step towards software power minimization". In *IEEE Trans. Very Large Scale Integration (VLSI) Systems* 2.4 (Dec. 1994), pp. 437–445.
- [21] G. D. Gopen and J. A. Swan. "The science of scientific writing". In *American Scientist* 78.6 (1990), pp. 550–558.
- [20] A. Hall. "Seven Myths of Formal Methods". In *IEEE Softw.* 7.5 (Sept. 1990), pp. 11–19.
- [19] B. Curtis, H. Krasner, and N. Iscoe. "A Field Study of the Software Design Process for Large Systems". In *Commun. ACM* 31.11 (Nov. 1988), pp. 1268–1287.
- [18] R. Johnson and B. Foote. "Designing Reusable Classes". In *Journal of Object-Oriented Programming SIGS* 1.5 (June 1988), pp. 22–35.
- [17] B. W. Boehm. "A Spiral Model of Software Development and Enhancement". In *Computer* 21.5 (May 1988), pp. 61–72.
- [16] W. S. Humphrey. "Characterizing the Software Process: A Maturity Framework". In *IEEE Softw.* 5.2 (Mar. 1988), pp. 73–79.
- [15] D. Harel. "Statecharts: A Visual Formalism for Complex Systems". In *Sci. Comput. Program.* 8.3 (June 1987), pp. 231–274.
- [14] F. P. Brooks Jr. "No Silver Bullet Essence and Accidents of Software Engineering". In *Computer* 20.4 (Apr. 1987), pp. 10–19.
- [13] E. J. Weyuker. "Axiomatizing Software Test Data Adequacy". In *IEEE Trans. Softw. Eng. (TSE)* 12.12 (Dec. 1986), pp. 1128–1138.
- [12] E. M. Clarke, E. A. Emerson, and A. P. Sistla. "Automatic Verification of Finite-state Concurrent Systems Using Temporal Logic Specifications". In *ACM Trans. Program. Lang. Syst.* 8.2 (Apr. 1986), pp. 244–263.
- [11] P. J. Fleming and J. J. Wallace. "How Not to Lie with Statistics: The Correct Way to Summarize Benchmark Results". In *Commun. ACM* 29.3 (Mar. 1986), pp. 218–221.
- [10] M. Shaw. "The impact of abstraction concerns on modern programming languages". In *Proc. of the IEEE* 68.9 (Apr. 1980), pp. 1119–1130.
- [9] V. Chvatal. "A Greedy Heuristic for the Set-Covering Problem". In *Math. Oper. Res.* 4.3 (Aug. 1979), pp. 233–235.

- [8] R. A. De Millo, R. J. Lipton, and A. J. Perlis. "Social Processes and Proofs of Theorems and Programs". In *Commun. ACM* 22.5 (May 1979), pp. 271–280.
- [7] J. C. King. "Symbolic Execution and Program Testing". In *Commun. ACM* 19.7 (July 1976), pp. 385–394.
- [6] W. A. Wulf, R. L. London, and M. Shaw. "An Introduction to the Construction and Verification of Alphard Programs". In *IEEE Trans. Softw. Eng. (TSE)* 2.4 (July 1976), pp. 253–265.
- [5] F. DeRemer and H. Kron. "Programming-in-the-Large Versus Programming-in-the-Small". In *IEEE Trans. Softw. Eng. (TSE)* SE-2.2 (June 1976), pp. 80–86.
- [4] H. W. J. Rittel and M. M. Webber. "Dilemmas in a general theory of planning". In *Policy Sciences* 4.2 (June 1973), pp. 155–169.
- [3] C. A. R. Hoare. "Proof of correctness of data representations". In *Acta Informatica* 1.4 (Dec. 1972), pp. 271–281.
- [2] D. L. Parnas. "On the Criteria to Be Used in Decomposing Systems into Modules". In *Commun. ACM* 15.12 (Dec. 1972), pp. 1053–1058.
- [1] M. E. Conway. "How do committees invent?" In *Datamation* 14.4 (1968), pp. 28–31.

Refereed Conference Publications

- [175] TODO. “Which Contributions Predict Whether Developers Are Accepted Into GitHub Teams”. In *TODO*. TODO.
- [174] TODO. “Influencers of Quality Assurance in an Open Source Community”. In *Proc. Int’l Conf. Software Engineering (ICSE)*. 2018.
- [173] M. Raghothaman, S. Kulkarni, K. Heo, and M. Naik. “Interactive program reasoning using Bayesian inference”. In *Proc. Conf. Programming Language Design and Implementation (PLDI)*. Philadelphia, PA, USA: ACM, June 2018.
- [172] TODO. “Almost There: A Study on Quasi-Contributors in Open-Source Software Projects”. In *Proc. Int’l Conf. Software Engineering (ICSE)*. Gothenburg, Sweden, May 2018.
- [171] TODO. “Identifying Design Problems in the Source Code: A Grounded Theory”. In *Proc. Int’l Conf. Software Engineering (ICSE)*. Gothenburg, Sweden, May 2018.
- [170] E. Glassman, T. Zhangk, B. Hartmann, and M. Kim. “Visualizing API Usage Examples at Scale”. In *Proc. Conf. Human Factors in Computing Systems (CHI)*. Montreal, Canada: ACM, Apr. 2018.
- [169] S. Wang, C. Li, H. Hoffmann, S. Lu, W. Sentosa, and A. I. Kistijantoro. “Understanding and Auto-Adjusting Performance-Sensitive Configurations”. In *Proc. Int’l Conf. Architectural Support for Programming Languages and Operating Systems (ASPLOS)*. Williamsburg, VA, USA: ACM, Mar. 2018, pp. 154–168.
- [168] M. Sayagh, N. Kerzazi, and B. Adams. “On Cross-stack Configuration Errors”. In *Proc. Int’l Conf. Software Engineering (ICSE)*. Buenos Aires, Argentina: IEEE Press, 2017, pp. 255–265.
- [167] E. Derr, S. Bugiel, S. Fahl, Y. Acar, and M. Backes. “Keep Me Updated: An Empirical Study of Third-Party Library Updatability on Android”. In *Proc. Conf. Computer and Communications Security (CCS)*. Dallas, TX, USA: ACM, Oct. 2017, pp. 2187–2200.
- [166] P. Jamshidi, N. Siegmund, M. Velez, Kästner, A. Patel, and Y. Agarwal. “Transfer Learning for Performance Modeling of Configurable Systems: An Exploratory Analysis”. In *Proc. Int’l Conf. Automated Software Engineering (ASE)*. Urbana-Champaign, IL, USA: ACM, Oct. 2017. (21% acceptance rate).
- [165] S. Scalabrino, G. Bavota, C. Vendome, M. Linares-Vásquez, D. Poshyvanyk, and R. Oliveto. “Automatically Assessing Code Understandability: How Far Are We?” In *Proc. Int’l Conf. Automated Software Engineering (ASE)*. Singapore, Singapore: ACM, Oct. 2017.
- [164] R. Abdalkareem, O. Nourry, S. Wehaibi, S. Mujahid, and E. Shihab. “Why Do Developers Use Trivial Packages? An Empirical Case Study on npm”. In *Proc. Europ. Software Engineering Conf. Foundations of Software Engineering (ESEC/FSE)*. Paderborn, Germany: ACM, Sept. 2017.
- [163] J. Coelho and M. T. Valente. “Why Modern Open Source Projects Fail”. In *Proc. Europ. Software Engineering Conf. Foundations of Software Engineering (ESEC/FSE)*. Paderborn, Germany: ACM, Sept. 2017, pp. 186–196.

- [162] J. Oh, D. Batory, M. Myers, and N. Siegmund. "Finding Near-optimal Configurations in Product Lines by Random Sampling". In *Proc. Europ. Software Engineering Conf. Foundations of Software Engineering (ESEC/FSE)*. Paderborn, Germany: ACM, Sept. 2017, pp. 61–71.
- [161] V. Nair, T. Menzies, N. Siegmund, and S. Apel. "Using Bad Learners to find Good Configurations". In *Proc. Conference*. Washington, DC, USA: IEEE Computer Society, July 2017.
- [160] B. Wang, Y. Xiong, Y. Shi, L. Zhang, and D. Hao. "Faster Mutation Analysis via Equivalence Modulo States". In *Proc. Int'l Symp. Software Testing and Analysis (ISSTA)*. Santa Barbara, CA, USA: ACM, July 2017, pp. 295–306.
- [159] P. Jamshidi, M. Velez, C. Kästner, N. Siegmund, and P. Kawthekar. "Transfer Learning for Improving Model Predictions in Highly Configurable Software". In *Proc. Int'l Symp. Software Engineering for Adaptive and Self-Managing Systems (SEAMS)*. Buenos Aires, Argentina: IEEE Computer Society, May 2017, pp. 31–41. (23% acceptance rate).
- [158] T. Sedano, P. Ralph, and C. Péraire. "Software Development Waste". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Buenos Aires, Argentina: IEEE Press, May 2017, pp. 130–140.
- [157] L. Song and S. Lu. "Performance Diagnosis for Inefficient Loops". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Buenos Aires, Argentina: IEEE Press, May 2017, pp. 370–380.
- [156] S. Souto, M. d'Amorim, and R. Gheyi. "Balancing Soundness and Efficiency for Practical Testing of Configurable Systems". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Buenos Aires, Argentina: IEEE Press, May 2017, pp. 632–642.
- [155] Y. Tang and H. Leung. "StiCProb: A novel feature mining approach using conditional probability". In *Int'l Conf. Software Analysis, Evolution and Reengineering (SANER)*. Klagenfurt, Austria: IEEE Computer Society, Feb. 2017, pp. 45–55.
- [154] C. Luckeneder, M. Rathmair, and H. Kaindl. "Investigating and Coordinating Safety-critical Feature Interactions in Automotive Systems Using Simulation". In *Hawaii Int'l Conf. System Sciences (HICSS)*. Hilton Waikoloa Village, HI, USA, Jan. 2017, p. 10.
- [153] K.-J. Stol, P. Ralph, and B. Fitzgerald. "Grounded Theory in Software Engineering Research: A Critical Review and Guidelines". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Austin, TX, USA: ACM, 2016, pp. 120–131.
- [152] P. Tsankov, M. Pistoia, O. Tripp, M. Vechev, and P. Ferrara. "FASE: Functionality-aware Security Enforcement". In *Proc. Conf. Computer Security Applications (ACSAC)*. Los Angeles, CA, USA: ACM, Dec. 2016, pp. 471–483.
- [151] C. Bogart, C. Kästner, J. Herbsleb, and F. Thung. "How to Break an API: Cost Negotiation and Community Values in Three Software Ecosystems". In *Proc. Int'l Symp. Foundations of Software Engineering (FSE)*. Seattle, WA, USA: ACM, Nov. 2016, pp. 109–120.

- [150] E. Kang, A. Milicevic, and D. Jackson. “Multi-representational Security Analysis”. In *Proc. Int’l Symp. Foundations of Software Engineering (FSE)*. Seattle, WA, USA: ACM, Nov. 2016, pp. 181–192.
- [149] T. Nguyen, T. Koc, J. Cheng, J. S. Foster, and A. A. Porter. “iGen Dynamic Interaction Inference for Configurable Software”. In *Proc. Int’l Symp. Foundations of Software Engineering (FSE)*. Seattle, WA, USA: IEEE Computer Society, Nov. 2016.
- [148] T. Xu, X. Jin, P. Huang, Y. Zhou, S. Lu, L. Jin, and S. Pasupathy. “Early Detection of Configuration Errors to Reduce Failure Damage”. In *Proc. Conf. Operating Systems Design and Implementation (OSDI)*. Savannah, GA, USA: USENIX Association, Nov. 2016, pp. 619–634.
- [147] L. Braz, R. Gheyi, M. Mongiovi, M. Ribeiro, F. Medeiros, and L. Teixeira. “A Change-centric Approach to Compile Configurable Systems with #Ifdefs”. In *Proc. Int’l Conf. Generative Programming and Component Engineering (GPCE)*. Amsterdam, Netherlands: ACM, Oct. 2016, pp. 109–119.
- [146] S. P. De Rosso and D. Jackson. “Purposes, Concepts, Misfits, and a Redesign of Git”. In *Proc. Int’l Conf. Object-Oriented Programming, Systems, Languages and Applications (OOPSLA)*. Amsterdam, Netherlands: ACM, Oct. 2016, pp. 292–310.
- [145] Z. Dong, A. Andrzejak, D. Lo, and D. Costa. “ORPLocator: Identifying Read Points of Configuration Options via Static Analysis”. In *Proc. Int’l Symposium Software Reliability Engineering (ISSRE)*. Oct. 2016, pp. 185–195.
- [144] M. Al-Hajjaji, S. Krieter, T. Thüm, M. Lochau, and G. Saake. “IncLing: Efficient Product-line Testing Using Incremental Pairwise Sampling”. In *Proc. Int’l Conf. Generative Programming and Component Engineering (GPCE)*. Amsterdam, Netherlands: ACM, Oct. 2016, pp. 144–155.
- [143] V. Rothberg, C. Dietrich, A. Ziegler, and D. Lohmann. “Towards Scalable Configuration Testing in Variable Software”. In *Proc. Int’l Conf. Generative Programming and Component Engineering (GPCE)*. Amsterdam, Netherlands: ACM, Oct. 2016, pp. 156–167.
- [142] X. Han and T. Yu. “An Empirical Study on Performance Bugs for Highly Configurable Software Systems”. In *Proc. Int’l Symposium Empirical Software Engineering and Measurement (ESEM)*. Ciudad Real, Spain: ACM, Sept. 2016, 23:1–23:10.
- [141] P. Jamshidi and G. Casale. “An Uncertainty-Aware Approach to Optimal Configuration of Stream Processing Systems”. In *Int’l Symp. Modeling, Analysis and Simulation of Computer and Telecommunication Systems (MASCOTS)*. London, UK, Sept. 2016, pp. 39–48.
- [140] J. Meinicke, C.-P. Wong, C. Kästner, T. Thüm, and G. Saake. “On Essential Configuration Complexity: Measuring Interactions in Highly-configurable Systems”. In *Proc. Int’l Conf. Automated Software Engineering (ASE)*. Singapore, Singapore: ACM, Sept. 2016, pp. 483–494.

- [139] L. Wei, Y. Liu, and S.-C. Cheung. "Taming Android Fragmentation: Characterizing and Detecting Compatibility Issues for Android Apps". In *Proc. Int'l Conf. Automated Software Engineering (ASE)*. Singapore, Singapore: ACM, Sept. 2016, pp. 226–237.
- [138] M. T. Ribeiro, S. Singh, and C. Guestrin. "'Why Should I Trust You?': Explaining the Predictions of Any Classifier". In *Proc. Int'l Conf. Knowledge Discovery and Data Mining (KDD)*. San Francisco, CA, USA: ACM, Aug. 2016, pp. 1135–1144.
- [137] M. Velez, J. Sawin, A. Ingerson, and D. Chiu. "Improving Bitmap Execution Performance Using Column-Based Metadata". In *Int'l Conf. Future Internet of Things and Cloud (FiCloud)*. Vienna, Austria: IEEE Computer Society, Aug. 2016, pp. 371–378. (30% acceptance rate).
- [136] R. Jabbarvand, A. Sadeghi, H. Bagheri, and S. Malek. "Energy-aware Test-suite Minimization for Android Apps". In *Proc. Int'l Symp. Software Testing and Analysis (ISSTA)*. Saarbrücken, Germany: ACM, July 2016, pp. 425–436.
- [135] P. Kawthekar and C. Kästner. "Sensitivity Analysis For Building Evolving & Adaptive Robotic Software". In *Proc. Workshop Autonomous Mobile Service Robots (WSR)*. New York, NY, USA, July 2016.
- [134] J. Yang, T. Hance, T. H. Austin, A. Solar-Lezama, C. Flanagan, and S. Chong. "Precise, Dynamic Information Flow for Database-backed Applications". In *Proc. Conf. Programming Language Design and Implementation (PLDI)*. Santa Barbara, CA, USA: ACM, June 2016, pp. 631–647.
- [133] M. Dhok, M. K. Ramanathan, and N. Sinha. "Type-aware Concolic Testing of JavaScript Programs". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Austin, TX, USA: ACM, May 2016, pp. 168–179.
- [132] J. Gui, D. Li, M. Wan, and W. G. J. Halfond. "Lightweight Measurement and Estimation of Mobile Ad Energy Consumption". In *Proc. Int'l Workshop Green and Sustainable Software (GREENS)*. Austin, TX, USA: ACM, May 2016, pp. 1–7.
- [131] I. Manotas, C. Bird, R. Zhang, D. Shepherd, C. Jaspan, C. Sadowski, L. Pollock, and J. Clause. "An Empirical Study of Practitioners' Perspectives on Green Software Engineering". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Austin, TX, USA: ACM, May 2016, pp. 237–248.
- [130] F. Medeiros, C. Kästner, M. Ribeiro, R. Gheyi, and S. Apel. "A Comparison of 10 Sampling Algorithms for Configurable Systems". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Austin, TX, USA: ACM, May 2016, pp. 643–654.
- [129] B. Ray, V. Hellendoorn, S. Godhane, Z. Tu, A. Bacchelli, and P. Devanbu. "On the 'Naturalness' of Buggy Code". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Austin, TX, USA: ACM, May 2016, pp. 428–439.
- [128] P. Thongtanunam, S. McIntosh, A. E. Hassan, and H. Iida. "Revisiting Code Ownership and Its Relationship with Software Quality in the Scope of Modern Code Review". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Austin, TX, USA: ACM, May 2016, pp. 1039–1050.

- [127] B. Vasilescu, K. Blincoe, Q. Xuan, C. Casalnuovo, D. Damian, P. Devanbu, and V. Filkov. "The Sky is Not the Limit: Multitasking Across GitHub Projects". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Austin, TX, USA: ACM, May 2016, pp. 994–1005.
- [126] Y. Kwon, D. Kim, W. N. Sumner, K. Kim, B. Saltaformaggio, X. Zhang, and D. Xu. "LXD: Causality Inference by Lightweight Dual Execution". In *Proc. Int'l Conf. Architectural Support for Programming Languages and Operating Systems (ASPLOS)*. Atlanta, GA, USA: ACM, Apr. 2016, pp. 503–515.
- [125] A. S. Buyukkayhan, K. Onarlioglu, W. Robertson, and E. Kirda. "CrossFire: An Analysis of Firefox Extension-Reuse Vulnerabilities". In *Network and Distributed System Security Symposium (NDSS)*. San Diego, CA, USA: Internet Society, Feb. 2016.
- [124] A. Hora, R. Robbes, N. Anquetil, A. Etien, S. Ducasse, and M. T. Valente. "How do developers react to API evolution? The Pharo ecosystem case". In *Proc. Int'l Conf. Software Maintenance and Evolution (ICSME)*. Bremen, Germany: IEEE Computer Society, 2015, pp. 251–260.
- [123] A. C. Bahnsen, D. Aouada, A. Stojanovic, and B. Ottersten. "Detecting Credit Card Fraud Using Periodic Features". In *Int'l Conf. Machine Learning and Applications (ICMLA)*. Miami, FL, USA: IEEE Press, Dec. 2015, pp. 208–213.
- [122] F. Lv, H. Zhang, J.-g. Lou, S. Wang, D. Zhang, and J. Zhao. "CodeHow: Effective Code Search Based on API Understanding and Extended Boolean Model". In *Proc. Int'l Conf. Automated Software Engineering (ASE)*. Washington, DC, USA: IEEE Computer Society, Nov. 2015, pp. 260–270.
- [121] A. Sarkar, J. Guo, N. Siegmund, S. Apel, and K. Czarnecki. "Cost-Efficient Sampling for Performance Prediction of Configurable Systems". In *Proc. Int'l Conf. Automated Software Engineering (ASE)*. Washington, DC, USA: IEEE Computer Society, Nov. 2015, pp. 342–352.
- [120] M. Sayagh and B. Adams. "Multi-layer software configuration: Empirical study on wordpress". In *Proc. Int'l Conf. Source Code Analysis and Manipulation (SCAM)*. Sept. 2015, pp. 31–40.
- [119] M. Eichberg, B. Hermann, M. Mezini, and L. Glanz. "Hidden Truths in Dead Software Paths". In *Proc. Europ. Software Engineering Conf. Foundations of Software Engineering (ESEC/FSE)*. Bergamo, Italy: ACM, Aug. 2015, pp. 474–484.
- [118] N. Siegmund, A. Grebhahn, S. Apel, and C. Kästner. "Performance-influence Models for Highly Configurable Systems". In *Proc. Europ. Software Engineering Conf. Foundations of Software Engineering (ESEC/FSE)*. Bergamo, Italy: ACM, Aug. 2015, pp. 284–294.
- [117] T. Xu, L. Jin, X. Fan, Y. Zhou, S. Pasupathy, and R. Talwadker. "Hey, You Have Given Me Too Many Knobs!: Understanding and Dealing with Over-designed Configuration in System Software". In *Proc. Europ. Software Engineering Conf. Foundations of Software Engineering (ESEC/FSE)*. Bergamo, Italy: ACM, Aug. 2015, pp. 307–319.

- [116] J. Bell and G. Kaiser. “Dynamic Taint Tracking for Java with Phosphor (Demo)”. In *Proc. Int’l Symp. Software Testing and Analysis (ISSTA)*. Baltimore, MD, USA: ACM, July 2015, pp. 409–413.
- [115] S. Zhang and M. D. Ernst. “Proactive Detection of Inadequate Diagnostic Messages for Software Configuration Errors”. In *Proc. Int’l Symp. Software Testing and Analysis (ISSTA)*. Baltimore, MD, USA: ACM, July 2015, pp. 12–23.
- [114] V. Avdiienko, K. Kuznetsov, A. Gorla, A. Zeller, S. Arzt, S. Rasthofer, and E. Bodden. “Mining Apps for Abnormal Usage of Sensitive Data”. In *Proc. Int’l Conf. Software Engineering (ICSE)*. Florence, Italy: IEEE Press, May 2015, pp. 426–436.
- [113] C. Henard, M. Papadakis, M. Harman, and Y. Le Traon. “Combining Multi-objective Search and Constraint Solving for Configuring Large Software Product Lines”. In *Proc. Int’l Conf. Software Engineering (ICSE)*. Florence, Italy: IEEE Press, May 2015, pp. 517–528.
- [112] R. Jabbarvand, A. Sadeghi, J. Garcia, S. Malek, and P. Ammann. “EcoDroid: An Approach for Energy-based Ranking of Android Apps”. In *Proc. Int’l Workshop Green and Sustainable Software (GREENS)*. Florence, Italy: IEEE Press, May 2015, pp. 8–14.
- [111] A. Nistor, P.-C. Chang, C. Radoi, and S. Lu. “Caramel: Detecting and Fixing Performance Problems That Have Non-intrusive Fixes”. In *Proc. Int’l Conf. Software Engineering (ICSE)*. Florence, Italy: IEEE Press, May 2015, pp. 902–912.
- [110] S. Elbaum, G. Rothermel, and J. Penix. “Techniques for Improving Regression Testing in Continuous Integration Development Environments”. In *Proc. Int’l Symp. Foundations of Software Engineering (FSE)*. Hong Kong, China: ACM, Nov. 2014, pp. 235–245.
- [109] R. Just, D. Jalali, L. Inozemtseva, M. D. Ernst, R. Holmes, and G. Fraser. “Are Mutants a Valid Substitute for Real Faults in Software Testing?” In *Proc. Int’l Symp. Foundations of Software Engineering (FSE)*. Hong Kong, China: ACM, Nov. 2014, pp. 654–665.
- [108] F. Anon, V. Navarathinasah, M. Hoang, and C.-H. Lung. “Building a Framework for Internet of Things and Cloud Computing”. In *Proc. Int’l Conf. Internet of Things (iThings)*. Taipei, Taiwan: IEEE Computer Society, Sept. 2014, pp. 132–139.
- [107] A. Gupta, T. Zimmermann, C. Bird, N. Nagappan, T. Bhat, and S. Emran. “Mining Energy Traces to Aid in Software Development: An Empirical Case Study”. In *Proc. Int’l Symposium Empirical Software Engineering and Measurement (ESEM)*. Torino, Italy: ACM, Sept. 2014, 40:1–40:8.
- [106] D. Jin, M. B. Cohen, X. Qu, and B. Robinson. “PrefFinder: Getting the Right Preference in Configurable Software Systems”. In *Proc. Int’l Conf. Automated Software Engineering (ASE)*. Vasteras, Sweden: ACM, Sept. 2014, pp. 151–162.
- [105] M. Lillack, C. Kästner, and E. Bodden. “Tracking Load-time Configuration Options”. In *Proc. Int’l Conf. Automated Software Engineering (ASE)*. Vasteras, Sweden: ACM, Sept. 2014, pp. 445–456.

- [104] S. Raemaekers, A. van Deursen, and J. Visser. "Semantic Versioning Versus Breaking Changes: A Study of the Maven Repository". In *Proc. Int'l Conference Source Code Analysis and Manipulation (SCAM)*. Victoria, BC, Canada: IEEE Computer Society, Sept. 2014, pp. 215–224.
- [103] A. Tarvo and S. P. Reiss. "Automated Analysis of Multithreaded Programs for Performance Modeling". In *Proc. Int'l Conf. Automated Software Engineering (ASE)*. Vasteras, Sweden: ACM, Sept. 2014, pp. 7–18.
- [102] S. Arzt, S. Rasthofer, C. Fritz, E. Bodden, A. Bartel, J. Klein, Y. Le Traon, D. Oteau, and P. McDaniel. "FlowDroid: Precise Context, Flow, Field, Object-sensitive and Lifecycle-aware Taint Analysis for Android Apps". In *Proc. Conf. Programming Language Design and Implementation (PLDI)*. Edinburgh, UK: ACM, June 2014, pp. 259–269.
- [101] D. Garlan. "Software Architecture: A Travelogue". In *Proc. Future of Software Engineering (FOSE)*. Hyderabad, India: ACM, June 2014, pp. 29–39.
- [100] D. Jin, X. Qu, M. B. Cohen, and B. Robinson. "Configurations Everywhere: Implications for Testing and Debugging in Practice". In *Companion Proc. Int'l Conf. Software Engineering*. Hyderabad, India: ACM, May 2014, pp. 215–224.
- [99] M. Linares-Vásquez, G. Bavota, C. Bernal-Cárdenas, R. Oliveto, M. Di Penta, and D. Poshyvanyk. "Mining Energy-greedy API Usage Patterns in Android Apps: An Empirical Study". In *Proc. Conf. Mining Software Repositories (MSR)*. Hyderabad, India: ACM, May 2014, pp. 2–11.
- [98] Y. Liu, C. Xu, and S.-C. Cheung. "Characterizing and Detecting Performance Bugs for Smartphone Applications". In *Proc. Int'l Conf. Software Engineering (ICSE)*. ICSE 2014. Hyderabad, India: ACM, May 2014, pp. 1013–1024.
- [97] S. Zhang and M. D. Ernst. "Which Configuration Option Should I Change?" In *Proc. Int'l Conf. Software Engineering (ICSE)*. Hyderabad, India: ACM, May 2014, pp. 152–163.
- [96] J. Zhang, L. Renganarayana, X. Zhang, N. Ge, V. Bala, T. Xu, and Y. Zhou. "EnCore: Exploiting System Environment and Correlation Information for Misconfiguration Detection". In *Proc. Int'l Conf. Architectural Support for Programming Languages and Operating Systems (ASPLOS)*. Salt Lake City, UT, USA: ACM, Mar. 2014, pp. 687–700.
- [95] B. Vasilescu, A. Serebrenik, P. Devanbu, and V. Filkov. "How Social Q&A Sites Are Changing Knowledge Sharing in Open Source Software Communities". In *Proc. Conf. Computer Supported Cooperative Work (CSCW)*. Baltimore, MA, USA: ACM, Feb. 2014, pp. 342–354.
- [94] J. Guo, K. Czarnecki, S. Apel, N. Siegmund, and A. Wąsowski. "Variability-aware performance prediction: A statistical learning approach". In *Proc. Int'l Conf. Automated Software Engineering (ASE)*. IEEE Computer Society. Silicon Valley, CA, USA: ACM, Nov. 2013, pp. 301–311.
- [93] P. Ohmann and B. Liblit. "Lightweight control-flow instrumentation and postmortem analysis in support of debugging". In *Proc. Int'l Conf. Automated Software Engineering (ASE)*. IEEE Computer Society. Silicon Valley, CA, USA: ACM, Nov. 2013.

- [92] T. Xu, J. Zhang, P. Huang, J. Zheng, T. Sheng, D. Yuan, Y. Zhou, and S. Pasupathy. "Do Not Blame Users for Misconfigurations". In *Proc. Symp. Operating Systems Principles*. Farminton, PA, USA: ACM, Nov. 2013, pp. 244–259.
- [91] H. Miller, P. Haller, E. Burmako, and M. Odersky. "Instant Pickles: Generating Object-oriented Pickler Combinators for Fast and Extensible Serialization". In *Proc. Int'l Conf. Object-Oriented Programming, Systems, Languages and Applications (OOPSLA)*. Indianapolis, IN, USA: ACM, Oct. 2013, pp. 183–202.
- [90] N. Siegmund, A. von Rhein, and S. Apel. "Family-Based Performance Measurement". In *Proc. Int'l Conf. Generative Programming and Component Engineering (GPCE)*. Indianapolis, IN, USA: ACM, Oct. 2013, pp. 95–104.
- [89] M. Böhme, B. C. d. S. Oliveira, and A. Roychoudhury. "Regression Tests to Expose Change Interaction Errors". In *Proc. Europ. Software Engineering Conf. Foundations of Software Engineering (ESEC/FSE)*. Saint Petersburg, Russia: ACM, Aug. 2013, pp. 334–344.
- [88] C. H. P. Kim, D. Marinov, S. Khurshid, D. Batory, S. Souto, P. Barros, and M. d'Amorim. "SPLat: Lightweight Dynamic Analysis for Reducing Combinatorics in Testing Configurable Systems". In *Proc. Europ. Software Engineering Conf. Foundations of Software Engineering (ESEC/FSE)*. Saint Petersburg, Russia: ACM, Aug. 2013, pp. 257–267.
- [87] Y. Kwon, S. Lee, H. Yi, D. Kwon, S. Yang, B.-G. Chun, L. Huang, P. Maniatis, M. Naik, and Y. Paek. "Mantis: Automatic Performance Prediction for Smartphone Applications". In *Proc. Conf. Annual Technical Conference (USENIX ATC)*. San Jose, CA, USA: USENIX Association, June 2013, pp. 297–308.
- [86] S. Hao, D. Li, W. G. J. Halfond, and R. Govindan. "Estimating Mobile Application Energy Consumption Using Program Analysis". In *Proc. Int'l Conf. Software Engineering (ICSE)*. San Francisco, CA, USA: IEEE Press, May 2013, pp. 92–101.
- [85] B. Johnson, Y. Song, E. Murphy-Hill, and R. Bowdidge. "Why Don't Software Developers Use Static Analysis Tools to Find Bugs?". In *Proc. Int'l Conf. Software Engineering (ICSE)*. San Francisco, CA, USA: IEEE Press, May 2013, pp. 672–681.
- [84] A. Nistor, T. Jiang, and L. Tan. "Discovering, Reporting, and Fixing Performance Bugs". In *Proc. Int'l Conf. Mining Software Repositories*. San Francisco, CA, USA: IEEE Press, May 2013, pp. 237–246.
- [83] W. N. Sumner and X. Zhang. "Comparative Causality: Explaining the Differences Between Executions". In *Proc. Int'l Conf. Software Engineering (ICSE)*. San Francisco, CA, USA: IEEE Press, May 2013, pp. 272–281.
- [82] S. Zhang and M. D. Ernst. "Automated Diagnosis of Software Configuration Errors". In *Proc. Int'l Conf. Software Engineering (ICSE)*. San Francisco, CA, USA: IEEE Press, May 2013, pp. 312–321.
- [81] J. Marlow and L. Dabbish. "Activity Traces and Signals in Software Developer Recruitment and Hiring". In *Proc. Conf. Computer Supported Cooperative Work (CSCW)*. San Antonio, TX, USA: ACM, Feb. 2013, pp. 145–156.

- [80] T. H. Austin, C. Flanagan, and M. Abadi. "A Functional View of Imperative Information Flow". In *Asian Symp. Programming Languages and Systems (APLAS)*. Ed. by R. Jhala and A. Igarashi. Kyoto, Japan: Springer Berlin Heidelberg, Dec. 2012, pp. 34–49.
- [79] M. F. Johansen, O. Haugen, and F. Fleurey. "An Algorithm for Generating T-wise Covering Arrays from Large Feature Models". In *Proc. Int'l Software Product Line Conference (SPLC)*. Salvador, Brazil: ACM, Sept. 2012, pp. 46–55.
- [78] A. Niknafs and D. M. Berry. "The impact of domain knowledge on the effectiveness of requirements idea generation during requirements elicitation". In *Proc. Int'l Requirements Engineering Conf. (RE)*. Chicago, IL, USA: IEEE Computer Society, Sept. 2012, pp. 181–190.
- [77] D. Alrajeh, J. Kramer, A. v. Lamsweerde, A. Russo, and S. Uchitel. "Generating Obstacle Conditions for Requirements Completeness". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Zurich, Switzerland: IEEE Press, June 2012, pp. 705–715.
- [76] E. Bodden. "Inter-procedural Data-flow Analysis with IFDS/IDE and Soot". In *Proc. Int'l Workshop State of the Art in Java Program Analysis (SOAP)*. Beijing, China: ACM, June 2012, pp. 3–8.
- [75] E. Bodden. "Position Paper: Static Flow-sensitive & Context-sensitive Information-flow Analysis for Software Product Lines". In *Pro. Workshop Programming Languages and Analysis for Security (PLAS)*. Beijing, China: ACM, June 2012, 6:1–6:6.
- [74] J. Downs, B. Plimmer, and J. G. Hosking. "Ambient Awareness of Build Status in Collocated Software Teams". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Zurich, Switzerland: IEEE Press, June 2012, pp. 507–517.
- [73] M. Greiler, A. v. Deursen, and M.-A. Storey. "Test Confessions: A Study of Testing Practices for Plug-in Systems". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Zurich, Switzerland: IEEE Press, June 2012, pp. 244–254.
- [72] S. Han, Y. Dang, S. Ge, D. Zhang, and T. Xie. "Performance Debugging in the Large via Mining Millions of Stack Traces". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Zurich, Switzerland: IEEE Press, June 2012, pp. 145–155.
- [71] A. Hindle, E. T. Barr, Z. Su, M. Gabel, and P. Devanbu. "On the Naturalness of Software". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Zurich, Switzerland: IEEE Press, June 2012, pp. 837–847.
- [70] G. Jin, L. Song, X. Shi, J. Scherpelz, and S. Lu. "Understanding and Detecting Real-world Performance Bugs". In *Proc. Conf. Programming Language Design and Implementation (PLDI)*. Beijing, China: ACM, June 2012, pp. 77–88.
- [69] C. Le Goues, M. Dewey-Vogt, S. Forrest, and W. Weimer. "A Systematic Study of Automated Program Repair: Fixing 55 out of 105 Bugs for \$8 Each". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Zurich, Switzerland: IEEE Press, June 2012, pp. 3–13.

- [68] N. Siegmund, S. S. Kolesnikov, C. Kästner, S. Apel, D. Batory, M. Rosenmüller, and G. Saake. “Predicting Performance via Automated Feature-interaction Detection”. In *Proc. Int’l Conf. Software Engineering (ICSE)*. Zurich, Switzerland: IEEE Press, June 2012, pp. 167–177.
- [67] A. Pathak, Y. C. Hu, and M. Zhang. “Where is the Energy Spent Inside My App?: Fine Grained Energy Accounting on Smartphones with Eprof”. In *Pro. Conf. Computer Systems (EuroSys)*. Bern, Switzerland: ACM, Apr. 2012, pp. 29–42.
- [66] D. Garlan, V. Dwivedi, I. Ruchkin, and B. Schmerl. “Foundations and Tools for End-user Architecting”. In *Proc. Conf. Large-Scale Complex IT Systems: Development, Operation and Management*. Oxford, UK: Springer-Verlag, Mar. 2012, pp. 157–182.
- [65] L. Dabbish, C. Stuart, J. Tsay, and J. Herbsleb. “Social Coding in GitHub: Transparency and Collaboration in an Open Software Repository”. In *Proc. Conf. Computer Supported Cooperative Work (CSCW)*. Seattle, WA, USA: ACM, Feb. 2012, pp. 1277–1286.
- [64] T. H. Austin and C. Flanagan. “Multiple Facets for Dynamic Information Flow”. In *Proc. Symp. Principles of Programming Languages (POPL)*. Philadelphia, PA, USA: ACM, Jan. 2012, pp. 165–178.
- [63] J. Sunshine, K. Naden, S. Stork, J. Aldrich, and É. Tanter. “First-class State Change in Plaid”. In *Proc. Int’l Conf. Object-Oriented Programming, Systems, Languages and Applications (OOPSLA)*. Portland, OR, USA: ACM, Oct. 2011, pp. 713–732.
- [62] Z. Yin, D. Yuan, Y. Zhou, S. Pasupathy, and L. Bairavasundaram. “How Do Fixes Become Bugs?” In *Proc. Europ. Software Engineering Conf. Foundations of Software Engineering (ESEC/FSE)*. Szeged, Hungary: ACM, Sept. 2011, pp. 26–36.
- [61] A. Zeller, T. Zimmermann, and C. Bird. “Failure is a Four-letter Word”. In *Proc. Int’l Conf. Predictive Models in Software Engineering (PROMISE)*. Banff, Alberta, Canada: ACM, Sept. 2011, 5:1–5:7.
- [60] A. Zeller, T. Zimmermann, and C. Bird. “Failure is a Four-letter Word: A Parody in Empirical Research”. In *Proc. Int’l Conf. Predictive Models in Software Engineering (PROMISE)*. Banff, Alberta, Canada: ACM, Sept. 2011, 5:1–5:7.
- [59] C. Parnin and A. Orso. “Are Automated Debugging Techniques Actually Helping Programmers?” In *Proc. Int’l Symp. Software Testing and Analysis (ISSTA)*. Toronto, Canada: ACM, July 2011, pp. 199–209.
- [58] A. Sampson, W. Dietl, E. Fortuna, D. Gnanapragasam, L. Ceze, and D. Grossman. “EnerJ: Approximate Data Types for Safe and General Low-power Computation”. In San Jose, CA, USA: ACM, June 2011, pp. 164–174.
- [57] A. Rabkin and R. Katz. “Static Extraction of Program Configuration Options”. In *Proc. Int’l Conf. Software Engineering (ICSE)*. Waikiki, Honolulu, HI, USA: ACM, May 2011, pp. 131–140.
- [56] A. Bhavé, B. Krogh, D. Garlan, and B. Schmerl. “View Consistency in Architectures for Cyber-Physical Systems”. In *Proc. Int’l Conf. Cyber-Physical Systems (ICCPs)*. Chicago, IL, USA: IEEE Computer Society Press, Apr. 2011, pp. 151–160.

- [55] A. Pathak, Y. C. Hu, M. Zhang, P. Bahl, and Y.-M. Wang. "Fine-grained Power Modeling for Smartphones Using System Call Tracing". In *Proc. Conf. Computer Systems (EuroSys)*. Salzburg, Austria: ACM, Apr. 2011, pp. 153–168.
- [54] H. Hoffmann, S. Sidiroglou, M. Carbin, S. Misailovic, A. Agarwal, and M. Rinard. "Dynamic Knobs for Responsive Power-aware Computing". In *Proc. Int'l Conf. Architectural Support for Programming Languages and Operating Systems (ASPLOS)*. Newport Beach, CA, USA: ACM, Mar. 2011, pp. 199–212.
- [53] C. H. P. Kim, D. S. Batory, and S. Khurshid. "Reducing Combinatorics in Testing Product Lines". In *Proc. Int'l Conf. Aspect-Oriented Software Development (AOSD)*. Porto de Galinhas, Brazil: ACM, Mar. 2011, pp. 57–68.
- [52] F. Hutter, H. H. Hoos, and K. Leyton-Brown. "Sequential Model-based Optimization for General Algorithm Configuration". In *Proc. Int'l Conf. Learning and Intelligent Optimization*. Rome, Italy: Springer-Verlag, Jan. 2011, pp. 507–523.
- [51] S. Oster, I. Zorcic, F. Markert, and M. Lochau. "MoSo-PoLiTe: Tool Support for Pairwise and Model-based Software Product Line Testing". In *Proc. Workshop Variability Modeling of Software-Intensive Systems (VAMOS)*. Namur, Belgium: ACM, Jan. 2011, pp. 79–82.
- [50] W. Enck, P. Gilbert, B.-G. Chun, L. P. Cox, J. Jung, P. McDaniel, and A. N. Sheth. "TaintDroid: An Information-flow Tracking System for Realtime Privacy Monitoring on Smartphones". In *Proc. Conf. Operating Systems Design and Implementation (OSDI)*. Vancouver, BC, Canada: USENIX Association, 2010, pp. 393–407.
- [49] M. Attariyan and J. Flinn. "Automating Configuration Troubleshooting with Dynamic Information Flow Analysis". In *Proc. Conf. Operating Systems Design and Implementation (OSDI)*. Vancouver, BC, Canada: USENIX Association, Oct. 2010, pp. 237–250.
- [48] N. Maiden, S. Jones, K. Karlsen, R. Neill, K. Zachos, and A. Milne. "Requirements Engineering As Creative Problem Solving: A Research Agenda for Idea Finding". In *Proc. Int'l Requirements Engineering Conf. (RE)*. Sydney, Australia: IEEE Computer Society, Sept. 2010, pp. 57–66.
- [47] P. Sawyer, N. Bencomo, J. Whittle, E. Letier, and A. Finkelstein. "Requirements-Aware Systems: A Research Agenda for RE for Self-adaptive Systems". In *Proc. Int'l Requirements Engineering Conf. (RE)*. Sydney, Australia: IEEE Computer Society, Sept. 2010, pp. 95–103.
- [46] T. H. Austin and C. Flanagan. "Permissive Dynamic Information Flow Analysis". In *Proc. Workshop Programming Languages and Analysis for Security (PLAS)*. Toronto, Canada: ACM, June 2010, 3:1–3:12.
- [45] E. J. Schwartz, T. Avgerinos, and D. Brumley. "All You Ever Wanted to Know About Dynamic Taint Analysis and Forward Symbolic Execution (but Might Have Been Afraid to Ask)". In *Proc. Symp. Security and Privacy (SP)*. Oakland, CA, USA: IEEE Computer Society, May 2010, pp. 317–331.

- [44] J. Chen, R. Nairn, L. Nelson, M. Bernstein, and E. Chi. "Short and Tweet: Experiments on Recommending Content from Information Streams". In *Proc. Conf. Human Factors in Computing Systems (CHI)*. Atlanta, GA, USA: ACM, Apr. 2010, pp. 1185–1194.
- [43] D. F. Sutherland and W. L. Scherlis. "Composable Thread Coloring". In *Proc. Symp. Principles and Practice of Parallel Programming*. Bangalore, India: ACM, Jan. 2010, pp. 233–244.
- [42] T. H. Austin and C. Flanagan. "Efficient Purely-dynamic Information Flow Analysis". In *Proc. Workshop Programming Languages and Analysis for Security (PLAS)*. Dublin, Ireland: ACM, June 2009, pp. 113–124.
- [41] J. Aranda and G. Venolia. "The Secret Life of Bugs: Going Past the Errors and Omissions in Software Repositories". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Vancouver, Canada: IEEE Computer Society, May 2009, pp. 298–308.
- [40] U. Dekel and J. D. Herbsleb. "Improving API Documentation Usability with Knowledge Pushing". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Vancouver, Canada: IEEE Computer Society Press, May 2009, pp. 320–330.
- [39] D. King, B. Hicks, M. Hicks, and T. Jaeger. "Implicit Flows: Can'T Live with 'Em, Can'T Live Without 'Em". In *Proc. Int'l Conf. Information Systems Security (ICISS)*. Hyderabad, India: Springer-Verlag, Dec. 2008, pp. 56–70.
- [38] A. J. Ko and B. A. Myers. "Debugging Reinvented: Asking and Answering Why and Why Not Questions About Program Behavior". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Leipzig, Germany: ACM, Oct. 2008, pp. 301–310.
- [37] C. Seo, S. Malek, and N. Medvidovic. "Component-Level Energy Consumption Estimation for Distributed Java-Based Software Systems". In *Pro. Int'l Symposium Component-Based Software Engineering (CBSE)*. Karlsruhe, Germany: Springer-Verlag, Oct. 2008, pp. 97–113.
- [36] H. Müller, M. Pezzè, and M. Shaw. "Visibility of Control in Adaptive Systems". In *Proc. Int'l Workshop Ultra-Large-Scale Software-Intensive Systems (ULSSIS)*. Leipzig, Germany: ACM, May 2008, pp. 23–26.
- [35] N. Nagappan, B. Murphy, and V. Basili. "The Influence of Organizational Structure on Software Quality: An Empirical Case Study". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Leipzig, Germany: ACM, May 2008, pp. 521–530.
- [34] C. Seo, S. Malek, and N. Medvidovic. "Estimating the Energy Consumption in Pervasive Java-Based Systems". In *Proc. Int'l Conf. Pervasive Computing and Communications (PerCom)*. Mar. 2008, pp. 243–247.
- [33] J. Aranda, S. Easterbrook, and G. Wilson. "Requirements in the wild: How small companies do it". In *Proc. Int'l Requirements Engineering Conf. (RE)*. New Delhi, India: IEEE Computer Society, Oct. 2007, pp. 39–48.
- [32] M. Sridharan, S. J. Fink, and R. Bodik. "Thin Slicing". In *Proc. Conf. Programming Language Design and Implementation (PLDI)*. San Diego, CA, USA: ACM, June 2007, pp. 112–122.

- [31] Y. Lei, R. Kacker, D. R. Kuhn, V. Okun, and J. Lawrence. "IPOG: A General Strategy for T-Way Software Testing". In *Proc. Int'l Conf. and Workshops Engineering of Computer-Based Systems (ECBS)*. Tucson, AZ, USA: IEEE Computer Society, Mar. 2007, pp. 549–556.
- [30] F. Steimann. "The Paradoxical Success of Aspect-oriented Programming". In *Proc. Int'l Conf. Object-Oriented Programming, Systems, Languages and Applications (OOPSLA)*. Portland, OR, USA: ACM, Oct. 2006, pp. 481–497.
- [29] F. Mancinelli, J. Boender, R. di Cosmo, J. Vouillon, B. Durak, X. Leroy, and R. Treinen. "Managing the Complexity of Large Free and Open Source Package-Based Software Distributions". In *Proc. Int'l Conf. Automated Software Engineering (ASE)*. Washington, DC, USA: IEEE Computer Society, Sept. 2006, pp. 199–208.
- [28] D. Garlan and B. Schmerl. "Architecture-driven Modelling and Analysis". In *Proc. Safety Critical Systems and Software (SCS)*. Melbourne, Australia: Australian Computer Society, Inc., Aug. 2006, pp. 3–17.
- [27] D. Batory. "Feature Models, Grammars, and Propositional Formulas". In *Proc. Int'l Software Product Line Conference (SPLC)*. Rennes, France: Springer-Verlag, Sept. 2005, pp. 7–20.
- [26] P. Godefroid, N. Klarlund, and K. Sen. "DART: Directed Automated Random Testing". In *Proc. Conf. Programming Language Design and Implementation (PLDI)*. Chicago, IL, USA: ACM, June 2005, pp. 213–223.
- [25] D. Batory, J. N. Sarvela, and A. Rauschmayer. "Scaling Step-wise Refinement". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Portland, OR, USA: IEEE Computer Society, May 2003, pp. 187–197.
- [24] M. Shaw. "Writing Good Software Engineering Research Papers: Minitutorial". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Portland, Oregon: IEEE Computer Society, May 2003, pp. 726–736.
- [23] R. E. Grinter and L. Palen. "Instant Messaging in Teen Life". In *Proc. Conf. Computer Supported Cooperative Work (CSCW)*. New Orleans, LA, USA: ACM, Nov. 2002, pp. 21–30.
- [22] T. A. Henzinger, R. Jhala, R. Majumdar, and G. Sutre. "Lazy Abstraction". In *Proc. Symp. Principles of Programming Languages (POPL)*. Portland, OR, USA: ACM, Jan. 2002, pp. 58–70.
- [21] D. Fox. "KLD-Sampling: Adaptive Particle Filters". In *Advances in Neural Information Processing Systems 14*. MIT Press, 2001.
- [20] A. Van Lamsweerde. "Goal-Oriented Requirements Engineering: A Guided Tour". In *Proc. Int'l Requirements Engineering Conf. (RE)*. Toronto, Canada: IEEE Computer Society, Aug. 2001, pp. 249–262.
- [19] T. Ball and S. K. Rajamani. "Automatically Validating Temporal Safety Properties of Interfaces". In *Proc. Int'l Workshop Model Checking of Software (SPIN)*. Toronto, Canada: Springer-Verlag New York, Inc., May 2001, pp. 103–122.

- [18] B. R. Murphy and M. S. Lam. "Program Analysis with Partial Transfer Functions". In *Proc. Workshop Partial Evaluation and Semantics-based Program Manipulation*. Boston, MA, USA: ACM, Jan. 2000, pp. 94–103.
- [17] R. Vallée-Rai, P. Co, E. Gagnon, L. Hendren, P. Lam, and V. Sundaresan. "Soot - a Java Bytecode Optimization Framework". In *Proc. Conf. Centre for Advanced Studies on Collaborative Research (CASCON)*. Mississauga, Ontario, Canada: IBM Press, Nov. 1999, pp. 13–.
- [16] M. D. Ernst, J. Cockrell, W. G. Griswold, and D. Notkin. "Dynamically Discovering Likely Program Invariants to Support Program Evolution". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Los Angeles, CA, USA: ACM, May 1999, pp. 213–224.
- [15] P. Tarr, H. Ossher, W. Harrison, and S. M. Sutton Jr. "N Degrees of Separation: Multi-dimensional Separation of Concerns". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Los Angeles, CA, USA: ACM, May 1999, pp. 107–119.
- [14] L. Cardelli. "Program Fragments, Linking, and Modularization". In *Proc. Symp. Principles of Programming Languages (POPL)*. Paris, France: ACM, Jan. 1997, pp. 266–277.
- [13] C. Potts and W. C. Newstetter. "Naturalistic Inquiry and Requirements Engineering: Reconciling Their Theoretical Foundations". In *Proc. Int'l Requirements Engineering Conf. (RE)*. Annapolis, MD, USA: IEEE Computer Society, Jan. 1997, pp. 118–127.
- [12] M. Jackson. "The World and the Machine". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Seattle, WA, USA: ACM, Apr. 1995, pp. 283–292.
- [11] O. Gotel and A. Finkelstein. "Contribution Structures". In *Proc. Int'l Requirements Engineering Conf. (RE)*. York, U.K.: IEEE Computer Society, Mar. 1995, pp. 100–107.
- [10] T. Reps, S. Horwitz, and M. Sagiv. "Precise Interprocedural Dataflow Analysis via Graph Reachability". In *Proc. Symp. Principles of Programming Languages (POPL)*. San Francisco, CA, USA: ACM, Jan. 1995, pp. 49–61.
- [9] T. Biggerstaff. "The Library Scaling Problem and the Limits of Concrete Component Reuse". In *Proc. Int'l Conf. Software Reuse (ICSR)*. Rio de Janeiro, Brazil: IEEE Computer Society, 1994, pp. 102–109.
- [8] R. Allen and D. Garlan. "Formalizing Architectural Connection". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Sorrento, Italy: IEEE Computer Society Press, May 1994, pp. 71–80.
- [7] L. Osterweil. "Software Processes Are Software Too". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Monterey, CA, USA: IEEE Computer Society Press, Mar. 1987, pp. 2–13.
- [6] W. W. Royce. "Managing the Development of Large Software Systems: Concepts and Techniques". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Monterey, CA, USA: IEEE Computer Society Press, Mar. 1987, pp. 328–338.

- [5] S. T. Redwine Jr. and W. E. Riddle. "Software Technology Maturation". In *Proc. Int'l Conf. Software Engineering (ICSE)*. London, England: IEEE Computer Society Press, Aug. 1985, pp. 189–200.
- [4] D. L. Parnas, P. C. Clements, and D. M. Weiss. "The Modular Structure of Complex Systems". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Orlando, FL, USA: IEEE Press, Mar. 1984, pp. 408–417.
- [3] M. Weiser. "Program Slicing". In *Proc. Int'l Conf. Software Engineering (ICSE)*. San Diego, CA, USA: IEEE Press, Mar. 1981, pp. 439–449.
- [2] D. L. Parnas. "Designing Software for Ease of Extension and Contraction". In *Proc. Int'l Conf. Software Engineering (ICSE)*. Atlanta, GA, USA: IEEE Press, May 1978, pp. 264–277.
- [1] G. A. Kildall. "A Unified Approach to Global Program Optimization". In *Proc. Symp. Principles of Programming Languages (POPL)*. Boston, MA, USA: ACM, Oct. 1973, pp. 194–206.

Technical Reports

- [6] C. Fritz, S. Arzt, S. Rasthofer, E. Bodden, A. Bartel, J. Klein, Y. le Traon, D. Oteau, and P. McDaniel. *Highly Precise Taint Analysis for Android Applications*. Tech. rep. TUD-CS-2013-0113. EC SPRIDE, May 2013.
- [5] T. H. Austin, T. Disney, A. Jeffrey, and C. Flanagan. *Dynamic Information Flow Analysis for Featherweight JavaScript*. Tech. rep. University of California Santa Cruz, 2011.
- [4] J. Newsome and D. Song. *Dynamic Taint Analysis for Automatic Detection, Analysis, and Signature Generation of Exploits on Commodity Software*. CMU-CS-04-140. Carnegie Mellon University, 2005.
- [3] R. E. Filman and D. P. Friedman. *Aspect-Oriented Programming is Quantification and Obliviousness*. Technical Report. NASA, 2000.
- [2] R. Kazman, M. Klein, and P. Clements. *ATAM: Method for Architecture Evaluation*. Technical Report CMU/SEI-2000-TR-004. Pittsburgh, PA: Software Engineering Institute, Carnegie Mellon University, 2000.
- [1] D. Garlan and M. Shaw. *An Introduction to Software Architecture*. Technical Report CMU-CS-94-166. Carnegie Mellon University, Jan. 1994.

Part of Books

- [1] M. Shaw. "The Role of Design Spaces". In M. Petre and A. van der Hoek. *Software Designers in Action: A Human-Centric Look at Design Work*. CRC Press, 2013. Chap. 3.

Thesis

- [3] C. Kapfhammer. "Adjustable Family-based Performance Measurement". MA thesis. University of Passau, 2017.
- [2] N. Siegmund. "Measuring and Predicting Non-Functional Properties of Customizable Programs". PhD thesis. University of Magdeburg, 2012.
- [1] C. Kästner. "Virtual Separation of Concerns: Toward Preprocessors 2.0". Logos Verlag Berlin, isbn 978-3-8325-2527-9. PhD thesis. Magdeburg, Germany: University of Magdeburg, May 2010.

Miscellaneous

- [10] TurtleBot. *What is TurtleBot?*
- [9] M. Anders and M. I. Schwartzbach. *Static Program Analysis*. 2017.
- [8] M. Velez, P. Jamshidi, C. Kästner, N. Siegmund, F. Sattler, and S. Apel. *White-Box Performance Discovery*. Poster. BRASS PI Meeting. Seattle, WA, USA, Nov. 2017.
- [7] ROS.org. *amcl*. Ed. by FlorianSteinhardt. Aug. 18, 2016.
- [6] M. Velez and J. Sawin. *Improving the Efficiency of CHA through Parallelization*. Poster. Inquiry at St. Thomas. St. Paul, MN, USA, May 2016.
- [5] M. Velez and J. Sawin. *Faster WAH Compression Querying through the Use of Metadata*. Poster. Consortium for Computing Sciences in Colleges Midwest Region. 1st place Discovery Track. Evansville, IN, USA, Oct. 2015.
- [4] M. Velez and A. Solar-Lezama. *Simpler Implementation of Sketches through Enhanced Expressiveness*. Poster. MIT Summer Research Poster Session. Cambridge, MA, USA, Aug. 2015.
- [3] M. Velez. *Current and Future Relationships Between Robots and Humans*. Summa Cum Laude Paper. Apr. 2015.
- [2] M. Velez, P. Gittins, and J. Sawin. *Extending SMILES to Encode Reaction Mechanisms*. Poster. Inquiry at St. Thomas. St. Paul, MN, USA, May 2014.
- [1] M. I. Schwartzbach. *Lecture Notes on Static Analysis*. 2008.

Manual

- [1] E. Bruneton. *ASM 4.0 A Java bytecode engineering library*. 2nd. ASM. Sept. 2011.