

Publication List

Journal Articles

- [1] Großmann, M., Felderer, M., Viehmann, J., Schieferdecker, I. (2019) *A Taxonomy to Assess and Tailor Risk-based Testing in Recent Testing Standards*. IEEE Software, IEEE. (online first)
- [2] Garousi, V., Giray, G., Tüzün, E, Catal, C., Felderer, M. (2019) *Closing the gap between software engineering education and industrial needs*. IEEE Software, IEEE. (online first)
- [3] Santoso, A., Felderer, M. (2019) *Specification-driven predictive business process monitoring*. Software and System Modeling, Springer. (online first)
- [4] Kuhrmann, M., Diebold, P., Münch, J., Tell, P., Trektere, K., McCaffery, F., Garousi, V., Felderer, M., Linssen, O., Hanser, E., Prause, C. R. (2019) *Hybrid Software Development Approaches in Practice: A European Perspective*. IEEE Software, IEEE Software, 36(4), pp. 20-31, IEEE.
- [5] Garousi, V., Giray, G., Tüzün, E., Catal, C., Felderer, M. (2019) *Aligning software engineering education with industrial needs: A meta-analysis*. Journal of Systems and Software, 156, pp. 65-83, Elsevier.
- [6] Garousi, V., Pfahl, D., Fernandes, J., Felderer, M., Mäntylä, M., Shepherd, D., Arcuri, A., Coşkunçay, A., Tekinerdogan, B. (2019) *Characterizing industry-academia collaborations in software engineering: evidence from 101 projects*. Empirical Software Engineering, 24(4), pp. 2540-2602, Springer.
- [7] Ammenwerth, E., Hackl, W., Felderer, M. (2019) *Flexibles Lernen: Erfolgreiche online-gestützte Lernprozesse ermöglichen*. Zeitschrift für Hochschulentwicklung, 14(3), pp. 401-417, BWF.
- [8] Zech, P., Felderer, M., Brey, R. (2019) *Knowledge-based Security Testing of Web Applications by Logic Programming*. International Journal on Software Tools for Technology Transfer, 21(2), pp. 221-246, Springer.
- [9] Sauerwein, C., Pekaric, I., Felderer, M., Brey, R. (2019) *An Analysis and Classification of Public Information Security Data Sources used in Research and Practice*. Computers & Security, 82, pp. 140-155, Elsevier.
- [10] Felderer, M., Holmström Olsson, H., Rabiser, R. (2019) *Introduction to the special issue on quality engineering and management of software-intensive systems*. Journal of Systems and Software, 149, pp. 533-534, Elsevier.
- [11] Garousi, V., Kucuk, B., Felderer, M. (2019) *What We Know About Smells in Software Test Code*. IEEE Software, 36(3), pp. 61-73, IEEE.
- [12] Wagner, S., Méndez Fernández, D., Felderer, M., et al. (2019) *Status Quo in Requirements Engineering: A Theory and a Global Family of Surveys*. ACM Transactions on Software Engineering and Methodology, 28(2), pp. 9:1-9:48, ACM.
- [13] Felderer, M., Herrmann, A. (2019) *Comprehensibility of system models during test design: a controlled experiment comparing UML activity diagrams and state machines*. Software Quality Journal, 27(1), pp. 125-147, Springer.
- [14] Sulaman, S. M., Beer, A., Felderer, M., Höst, M. (2019) *Comparison of the FMEA and STPA safety analysis methods—a case study*. Software Quality Journal, 27(1), pp. 349-387, Springer.
- [15] Garousi, V., Felderer, M., Kılıçaslan, F. N. (2019) *A survey on software testability*. Information and Software Technology, 108, pp. 35-64, Elsevier.
- [16] Garousi, V., Felderer, M., Mäntylä, M. (2019) *Guidelines for including grey literature and conducting multivocal literature reviews in software engineering*. Information and Software Technology, 106, pp. 101-121, Elsevier.
- [17] Wagner, S., Tichy, M., Felderer, M., Leue, S. (2018) *Verlässliche Software im 21. Jahrhundert*. Informatik Spektrum, 41(5), pp. 311-316, Springer.

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- [20] Garousi, V., Felderer, M. (2018) *What we know about testing embedded software*. IEEE Software, 35(4), pp. 62-69, IEEE.
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- [22] Felderer, M., Pfahl, D. (2018) *Special Section: Automation and Analytics for Greener Software Engineering*. Information and Software Technology, 95, pp. 106-107, Elsevier.
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- [41] Bjarnason, E., Morandini, M., Borg, M., Unterkalmsteiner, M., Felderer, M., Staats, M. (2015) *Summary of 2nd International Workshop on Requirements Engineering and Testing (RET 2015): Co-located with ICSE 2015*. ACM SIGSOFT Software Engineering Notes, 40(5), pp.39-42, ACM.
- [42] Felderer, M. et al. (2014) *Evolution of Security Engineering Artifacts: A State of the Art Survey*. International Journal on Secure Software Engineering, 5(4), pp. 48-97, IGI Global.
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- [44] Felderer, M., Ramler, R. (2014) *A multiple case study on risk-based testing in industry*. International Journal on Software Tools for Technology Transfer, 16(5), pp. 609-625, Springer.
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Papers in Conference and Workshop Proceedings

- [49] Robiolo, G., Scott, E., Matalonga, S., Felderer, M. (2019) *Technical Debt and Waste in Non-functional Requirements Documentation: An Exploratory Study*. The 20th International Conference on Product-Focused Software Process Improvement (PROFES 2019), pp. 220-235, Springer.
- [50] Foidl, H., Felderer, M. (2019) *Risk-based data validation in machine learning-based software systems*. MaLTeSQuE@ESEC/SIGSOFT FSE 2019, pp. 13-18, ACM.
- [51] Foidl, H., Felderer, M., Biffi, S. (2019) *Technical Debt in Data-Intensive Software Systems*. 45th EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA 2019), pp. 338-341, IEEE.
- [52] Pekaric, I., Sauerwein, C., Felderer, M. (2019) *Applying Security Testing Techniques to Automotive Engineering*. 14th International Conference on Availability, Reliability and Security (ARES 2019), pp. 61:1-61:10, ACM.
- [53] Auer, F., Felderer, M. (2019) *Addressing data quality problems with metamorphic data relations*. MET@ICSE 2019, pp. 76-83, IEEE.
- [54] Tahvili, S., Hatvani, L., Felderer, M., Afzal, W., Bohlin, M. (2019) *Automated Functional Dependency Detection Between Test Cases Using Doc2Vec and Clustering*. The First IEEE International Conference On Artificial Intelligence Testing (AITest 2019), pp. 19-26, IEEE.

- [55] Ammenwerth, E., Hackl, W., Dornauer, V., Felderer, M., Hörbst, A., Nantschev, R., Netzer, M. (2019) *Impact of Students' Presence and Course Participation on Learning Outcome in Co-Operative Online-based Courses*. 17th International Conference on Informatics, Management and Technology in Healthcare (ICIMTH 2019), pp. 87-90, IOS Press.
- [56] Klünder, J., Hebig, R., Tell, P., Kuhrmann, M., Nakatumba-Nabende, J., Heldal, R., Krusche, S., Fazal-Baqaie, M., Felderer, M. et al. (2019) *Catching up with Method and Process Practice: An Industry-Informed Baseline for Research*. ICSE-SEIP, IEEE.
- [57] Mendoza, I., Kalinowski, M., Souza, U., Felderer, M. (2019) *Relating Verification and Validation Methods to Software Product Quality Characteristics: Results of an Expert Survey*. Software Quality Days 2019 (SWQD 2019), pp. 33-44, Springer.
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- [59] Felderer, M., Kuhrmann, M. (2019) *Using Mini-Projects to Teach Empirical Software Engineering*. Software Engineering im Unterricht der Hochschulen (SEUH 2019), pp. 75-86, CEUR.
- [60] Sillaber, C., Waltl, B., Treiblmaier, H., Gallerdörfer, U., Felderer, M. (2018) *Toward an Integrated Process Model for Smart Contract Engineering*. ICIS SIGBPS Workshop on Blockchain and Smart Contract.
- [61] Counsell, S., Swift, S., Tonelli, R., Marchesi, M., Felderer, M. (2018) *Re-visiting a Test Taxonomy with Refactoring and Defect-fix Data*. 44th EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA 2018), pp. 41-44, IEEE.
- [62] Auer, F., Felderer, M. (2018) *Current State of Research on Continuous Experimentation: A Systematic Mapping Study*. 44th EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA 2018), pp. 335-344, IEEE.
- [63] Felderer, M., Gurov, D., Huisman, M., Lisper, B., Schlick, R. (2018) *Formal Methods in Industrial Practice - Bridging the Gap (Track Summary)*. 8th International Symposium On Leveraging Applications of Formal Methods, Verification and Validation (ISoLA 2018), pp. 77-81, Springer.
- [64] Schlick, R., Felderer, M., Majzik, I., Nardone, R., Raschke, A., Snook, C. F., Vittorini, V. (2018) *A Proposal of an Example and Experiments Repository to Foster Industrial Adoption of Formal Methods*. 8th International Symposium On Leveraging Applications of Formal Methods, Verification and Validation (ISoLA 2018), pp. 249-272, Springer.
- [65] Felderer, M. (2018) *Risk-based Software Quality and Security Engineering in Data-intensive Environments (Invited Keynote)*, 5th International Conference on Future Data and Security Engineering (FDSE 2018), pp. 12-17, Springer.
- [66] Ammenwerth, E., Hackl, W., Felderer, M., Sauerwein, C., Hörbst, A. (2018) *Building a Community of Inquiry Within an Online-Based Health Informatics Program: Instructional Design and Lessons Learned*. GMDS 2018, pp. 196-200, IOS Press.
- [67] Auer, F., Felderer, M., Lenarduzzi, V. (2018) *Towards defining a microservice migration framework*. XP Companion 2018, pp. 21:1-27:2, ACM.
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- [72] Auer F., Felderer, M. (2018) *Shifting Quality Assurance of Machine Learning Algorithms to Live Systems*. Software Engineering (SE 18), pp. 211-212, GI.
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- [75] Felderer, M., Marculescu, B., Gomes de Oliveira Neto, F., Feldt, R., Torkar, R. (2018) *A Testability Analysis Framework for Non-Functional Properties*. 2nd Workshop on Testing Extra-Functional Properties and Quality Characteristics of Software Systems (ITEQS), IEEE. **Best Paper Award**
- [76] Mendez Fernandez, D., Tießler, M., Kalinowski, M., Felderer, M., Kuhrmann, M. (2018) *On Evidence-Based Risk Management in Requirements Engineering*. Software Quality Days 2018 (SWQD 2018), pp. 39-59, Springer. **Best Paper Award**
- [77] Häser, F., Felderer, M., Breu, R. (2018) *Evaluation of an Integrated Tool Environment for Experimentation in DSL engineering*. Software Quality Days 2018 (SWQD 2018), pp. 147-168, Springer.
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- [83] Labunets, K., Janes, A., Felderer, M., Massacci, F. (2017) *Poster: Teaching Predictive Modeling to Junior Software Engineering; Seminar Format and Its Evaluation*. International Conference on Software Engineering Companion (ICSE 2017), pp. 339-340, IEEE.
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- [85] Garousi, V., Felderer, M. (2017) *Experience-based guidelines for effective and efficient data extraction in systematic reviews in software engineering*. 21th International Conference on Evaluation and Assessment in Software Engineering (EASE 2017), pp. 170-179, ACM.
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- [93] Lachmann, R., Felderer, M., Nieke, M., Schulze, S., Seidl, C., Schäfer, I. (2017) *Multi-Objective Black-Box Test Case Selection for System Testing*. The Genetic and Evolutionary Computation Conference (GECCO 2017), pp. 1311-1318, ACM.
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- [98] Foidl, H., Felderer, M. (2016) *Data science challenges to improve quality assurance of Internet of Things applications*. 7th International Symposium On Leveraging Applications of Formal Methods, Verification and Validation (ISoLA 2016), pp. 707-726, Springer.
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- [104] Foidl, H., Felderer, M. (2016) *Research Challenges of Industry 4.0 for Quality Management*. ERP Future 2015, pp. 121-137, Springer.
- [105] Felderer, M., Herrmann, A. (2016) *Errors Made During Manual Test Case Derivation from UML Activity Diagrams and State Machines: Results of a Controlled Experiment*. Software Engineering & Management (SE 2016), p. 19, GI.
- [106] Keckeis, J., Dolezel M., Felderer, M. (2015) *Towards a Concept for Enterprise Systems Landscape Testing*. ERP Future 2014, pp. 133-146, Springer.
- [107] Felderer, M., Hasselbring, W. (2016) *SE FIT: Software Engineering Forum der IT Transferinstitute*. Software Engineering & Management (SE 2016), p. 117, GI.
- [108] Kalinowski, M., Felderer, M., Conte, T., Spínola, R., Prikladnicki, R., Winkler, D., Méndez Fernández, D., Wagner, S. (2016) *Preventing Incomplete/Hidden Requirements: Reflections on Survey Data from Austria and Brazil*, Software Quality Days 2016 (SWQD 2016), pp. 63-78, Springer. **Best Research Paper Award**
- [109] Pekar, V., Felderer, M., Breu, R., Nickl, F., Roßik, C., Schwarcz, F. (2016) *Integrating a lightweight risk assessment approach into an industrial development process*. Software Quality Days 2016 (SWQD 2016), pp. 186-198, Springer.
- [110] Ramler, R., Felderer, M. (2015) *A Process for Risk-Based Test Strategy Development and Its Industrial Evaluation*. The 16th International Conference on Product-Focused Software Process Improvement (PROFES 2015), pp. 355-371, Springer. **Best Paper Award**
- [111] Bjarnason, E., Morandini, M., Borg, M., Unterkalmsteiner, M., Felderer, M., Staats, M.: *2nd International Workshop on Requirements Engineering and Testing (RET 2015)*. International Conference on Software Engineering (ICSE 2015), pp. 997-998, IEEE.
- [112] Mohacsi, S., Felderer, M., Beer, A. (2015) *Estimating the Cost and Benefit of Model-Based Testing: A Decision Support Procedure for the Application of Model-Based Testing in Industry*. 41th EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA 2015), pp. 382-389, IEEE.
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