

Publication List

Journal Articles

- [1] Sillaber, C., Walth, B., Treiblmaier, H., Gallersdörfer, U., Felderer, M. (2020) *Laying the foundations for smart contract development: an integrated engineering process model*. Information Systems and e-Business Management. Springer. (online first)
- [2] Rainer, A., Williams, A., Garousi, V., Felderer, M. (2020) *Retrieving and mining professional experience of software practice from grey literature: an exploratory review*. IET Software, 14(6), pp. 665-676, IET.
- [3] Santoso, A., Felderer, M. (2020) *Specification-driven predictive business process monitoring*. Software and System Modeling, 19(6), pp. 1307-1343, Springer.
- [4] Garousi, V., Felderer, M., Kuhrmann, M., Herkioloğlu, K., Eldh, S. (2020) *Exploring the industry's challenges in software testing: An empirical study*. Journal of Software Maintenance and Evolution: Research and Practice, 32(8), e2251, Wiley.
- [5] Garousi, V., Bauer, S., Felderer, M. (2020) *NLP-assisted software testing: A systematic mapping of the literature*. Information and Software Technology, 126, 106321, Elsevier.
- [6] Brunner, M., Sauerwein, C., Felderer, M., Brey, R. (2020) *Risk management practices in information security: Exploring the status quo in the DACH region*, 92. Computers & Security, Elsevier.
- [7] Großmann, M., Felderer, M., Viehmann, J., Schieferdecker, I. (2020) *A Taxonomy to Assess and Tailor Risk-based Testing in Recent Testing Standards*. IEEE Software, 37(1), pp. 40-49, IEEE.
- [8] Garousi, V., Giray, G., Tüzün, E., Catal, C., Felderer, M. (2020) *Closing the gap between software engineering education and industrial needs*. IEEE Software, 37(2), pp. 68-77, IEEE.
- [9] Kuhrmann, M., Diebold, P., Münch, J., Tell, P., Trektore, 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.
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- [11] 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.
- [12] Ammenwerth, E., Hackl, W., Felderer, M. (2019) *Flexibles Lernen: Erfolgreiche online-gestützte Lernprozesse ermöglichen*. Zeitschrift für Hochschulentwicklung, 14(3), pp. 401-417, BWF.
- [13] 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.
- [14] 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.
- [15] 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.
- [16] Garousi, V., Kucuk, B., Felderer, M. (2019) *What We Know About Smells in Software Test Code*. IEEE Software, 36(3), pp. 61-73, IEEE.
- [17] 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.

- [18] 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.
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- [20] Garousi, V., Felderer, M., Kılıçaslan, F. N. (2019) *A survey on software testability*. Information and Software Technology, 108, pp. 35-64, Elsevier.
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- [22] 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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- [26] Foidl, H., Felderer, M. (2018) *Integrating software quality models into risk-based testing*. Software Quality Journal, 26(2), pp. 809-847, Springer.
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- [40] Garousi, V., Felderer, M. (2016) *Developing, Verifying, and Maintaining High-Quality Automated Test Scripts*. IEEE Software, 33(3), pp. 68-75, IEEE.
- [41] Felderer, M., Ramler, R. (2016) *Risk orientation in software testing processes of small and medium enterprises: an exploratory and comparative study*, Software Quality Journal, 24(3), pp. 519-548, Springer.
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Papers in Conference and Workshop Proceedings

- [54] Auer, F., Felderer, M. (2021) *An Infrastructure for Platform-Independent Experimentation*. 47th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2021), Springer. (accepted)
- [55] Ghafari, M., Gross, T., Fucci, D., Felderer, M. (2020) *Why Research on Test-Driven Development is Inconclusive?* International Symposium on Empirical Software Engineering and Measurement (ESEM 2020), ACM. (accepted for publication)

- [56] Auer, F., Felderer, M. (2020) *Continuous Experiment Definition Characteristics*. 46th EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA 2020), IEEE. (accepted for publication)
- [57] Auer, F., Felderer, M. (2020) *Evaluating the Usefulness and Ease of Use of an Experimentation Definition Language*. 32th International Conference on Software Engineering and Knowledge Engineering (SEKE2020), KSI Research Inc. (accepted for publication)
- [58] Lenz, L., Felderer, M., Schwedes, S., Müller, K. (2020) *Explainable Priority Assessment of Software Defects using Categorical Features at SAP HANA*. 24th International Conference on Evaluation and Assessment in Software Engineering (EASE 2020), pp. 366-367, ACM.
- [59] Felderer, M., Garousi, V. (2020) *Together We Are Stronger: Evidence-Based Reflections on Industry-Academia Collaboration in Software Testing*. Software Quality Days (SWQD 2020), pp. 3-12, Springer.
- [60] Auer, T., Felderer, M. (2020) *Towards a Learning Environment for Internet of Things Testing with Lego Mindstorms*. 1st International Software Testing Education Workshop (TestEd 2020), IEEE.
- [61] 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.
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- [63] Foidl, H., Felderer, M., Biffel, S. (2019) *Technical Debt in Data-Intensive Software Systems*. 45th EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA 2019), pp. 338-341, IEEE.
- [64] 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.
- [65] Auer, F., Felderer, M. (2019) *Addressing data quality problems with metamorphic data relations*. MET@ICSE 2019, pp. 76-83, IEEE.
- [66] 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.
- [67] 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.
- [68] 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.
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- [71] 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.
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- [73] 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.
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- [84] 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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- [88] 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**
- [89] Häser, F., Felderer, M., Brey, R. (2018) *Evaluation of an Integrated Tool Environment for Experimentation in DSL engineering*. Software Quality Days 2018 (SWQD 2018), pp. 147-168, Springer.

- [90] Felderer, M., Pekaric, I. (2017) *Research Challenges in Empowering Agile Teams with Security Knowledge Based on Public and Private Information Sources*. International Workshop on Secure Software Engineering in DevOps and Agile Development (SecSE@ECORICS 2017), pp. 1-7, CEUR.
- [91] Cruzes, D. S., Felderer, M., Oyetoyan, T. D., Gander, M., Pekaric, I. (2017) *How is security testing done in agile teams? A cross-case analysis of four software teams*. 18th International Conference on Agile Software Development (XP 2017), pp. 201-216, Springer.
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- [95] 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.
- [96] Garousi, V., Felderer, M., Kuhrmann, M., Herkiloglu, K. (2017) *What industry wants from academia in software testing?: Hearing practitioners' opinions*. 21th International Conference on Evaluation and Assessment in Software Engineering (EASE 2017), pp. 65-69, ACM. **Best Industry Paper Award**
- [97] 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.
- [98] Garousi, V., Felderer, M., Fernandes, J. M., Pfahl, D., Mäntylä, M. (2017) *Industry-academia collaborations in software engineering: An empirical analysis of challenges, patterns and anti-patterns in research projects*. 21th International Conference on Evaluation and Assessment in Software Engineering (EASE 2017), pp. 224-229, ACM.
- [99] Ammenwerth, E., Hackl, W. O., Felderer, M., Hörbst, A. (2017) *Developing and evaluating collaborative online-based instructional designs in health information management*. 62nd Annual Meeting of the German Association of Medical Informatics, Biometry and Epidemiology (GMDS 2017), Studies in Health Technology and Informatics, 243, pp. 8-12, IOS Press.
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- [101] Felderer, M., Auer, F., Bergsmann, J. (2017) *Risk Management during Software Development: Results of a Survey in Software Houses from Germany, Austria and Switzerland*. 4th International Workshop on Risk Assessment and Risk-driven Quality Assurance (RISK 2016), pp. 143-155, Springer.
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- [103] Kuhrmann, M., Diebold, P., Münch, J., Tell, P., Garousi, V., Felderer, M., Trektere, K., McCaffery, F., Linsen, O., Hanser, E., Prause, C. (2017) *Hybrid Software and System Development in Practice: Waterfall, Scrum, and Beyond*. International Conference on Software and System Processes (ICSSP 2017), pp. 30-39, ACM.

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- [105] 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.
- [106] Jacobsen, J. W., Kuhrmann, M., Münch, J., Diebold, P., Felderer, M. (2016) *On the Role of Software Quality Management in Software Process Improvement*. The 17th International Conference on Product-Focused Software Process Improvement (PROFES 2016), pp. 327-343, Springer.
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- [110] 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.
- [111] Peischl, B., Felderer, M., Beer, A. (2016) *Testing Security Requirements with Non-Experts: Approaches and Empirical Investigations*. The 2016 IEEE International Conference on Software Quality, Reliability & Security (QRS 2016), pp. 254-261, IEEE.
- [112] Häser, F., Felderer, M., Breu, R. (2016) *An Integrated Tool Environment for Experimentation in Domain Specific Language Engineering*, 20th International Conference on Evaluation and Assessment in Software Engineering (EASE 2016), 20, ACM. **Best Tools Track Award**
- [113] Garousi, V., Felderer, M., Mäntylä, M. (2016) *The need for multivocal literature reviews in software engineering: complementing systematic literature reviews with grey literature*, 20th International Conference on Evaluation and Assessment in Software Engineering (EASE 2016), 26, ACM.
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