

Publication List

Journal Articles

- [1] Foidl, H., Felderer, M. (2017) *Integrating software quality models into risk-based testing*. Software Quality Journal, Springer. (online first)
- [2] Kuhrmann, M., Diebold, P., Münch, J., Tell, P., Trektene, K., McCaffery, F., Garousi, V., Felderer, M., Linssen, O., Hanser, E., Prause, C. R. (2017) *Hybrid Software Development Approaches in Practice: A European Perspective*. IEEE Software, IEEE. (online first)
- [3] Garousi, V., Felderer, M. (2017) *What we know about software test maturity and test process improvement*. IEEE Software, IEEE. (online first)
- [4] Sulaman, S. M., Beer, A., Felderer, M., Höst, M. (2017) *Comparison of the FMEA and STPA safety analysis methods—a case study*. Software Quality Journal, Springer. (online first)
- [5] Zech, P., Felderer, M., Breu, R. (2017) *Knowledge-based Security Testing of Web Applications by Logic Programming*. International Journal on Software Tools for Technology Transfer, Springer. (online first)
- [6] Garousi, V., Felderer, M. (2017) *What we know about testing embedded software*. IEEE Software, IEEE. (online first)
- [7] Ammenwerth, E., Hackl, W., Felderer, M., Hörbst, A. (2017) *Indikatoren für kooperative, online-basierte Lernprozesse: Entwicklung und Erprobung*. Zeitschrift für Hochschulentwicklung, 12(4), pp. 215-238.
- [8] Garousi, V., Felderer, M. (2017) *Worlds Apart: Industrial and Academic Focus Areas in Software Testing*. IEEE Software, 34(5), pp. 38-45, IEEE.
- [9] Felderer, M., Ramler, R. (2017) *Special issue on collaboration in software testing between industry and academia*, 25(4), pp. 1087-1089. Software Quality Journal, Springer.
- [10] Méndez Fernández, D., Wagner, S., Kalinowski, M., Felderer, M. et al. (2017) *Naming the pain in requirements engineering: Contemporary problems, causes, and effects in practice*. Empirical Software Engineering, 22(5), pp. 2298-2338, Springer.
- [11] Garousi, V., Felderer, M., Hacaloğlu, T. (2017) *Software test maturity assessment and test process improvement: A multivocal literature review*. Information and Software Technology, 85, pp. 16-42, Elsevier.
- [12] Zech, P., Kalb, P., Felderer, M., Atkinson, C., Breu, R. (2017) *Model-based regression testing by OCL*. International Journal on Software Tools for Technology Transfer, 19(1), pp. 115-131, Springer.
- [13] Häser, F., Felderer, M., Breu, R. (2016) *Is Business Domain Language Support Beneficial for Creating Test Case Specifications: A Controlled Experiment*. Information and Software Technology, 29, pp. 52-62, Elsevier.
- [14] Felderer, M. (2016) *Issues on software quality for mastering change*. Transactions on Foundations for Mastering Change, 1, pp. 225-241, Springer.
- [15] Celebic, B., Breu, R., Felderer, M. (2016) *Traceability Types for Mastering Change in Collaborative Software Quality Management*. Transactions on Foundations for Mastering Change, 1, pp. 242-256, Springer.
- [16] Unterkalmsteiner, M., Gay, G., Felderer, M., Bjarnason, E., Borg, M., Morandini, M. (2016) *Summary of the 3rd International Workshop on Requirements Engineering and Testing (RET 2016): [Co-located with REFSQ 2016]*. ACM SIGSOFT Software Engineering Notes, 41(3), pp. 31-33, ACM.
- [17] Felderer, M., Zech, P., Breu, R., Büchler, M., Pretschner, A. (2016) *Model-Based Security Testing: A Taxonomy and Systematic Classification*. Software Testing, Verification and Reliability, 26(2), pp. 119-148, Wiley.
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- [20] Felderer, M., Fourneret, E. (2015) *A systematic classification of security regression testing approaches*. International Journal on Software Tools for Technology Transfer, 17(3), pp. 305-319, Springer.
- [21] Felderer, M., Katt, B. (2015) *A process for mastering security evolution in the development lifecycle*. International Journal on Software Tools for Technology Transfer, 17(3), pp. 245-250, Springer.
- [22] Felderer, M., Beer, A. (2015) *Using Defect Taxonomies for Testing Requirements*. IEEE Software, 32(3), pp. 94-101, IEEE.
- [23] Felderer, M., Herrmann, A. (2015) *Manual test case derivation from UML activity diagrams and state machines: A controlled experiment*. Information and Software Technology, 61, pp. 1-15, Elsevier.
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- [25] 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.
- [26] Felderer, M., Schieferdecker, I. (2014) *A taxonomy of risk-based testing*. International Journal on Software Tools for Technology Transfer, 16(5), pp. 559-568, Springer.
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- [30] Felderer, M., Chimiak-Opoka, J., Zech, P., Haisjackl, C., Fiedler, F., Breu, R. (2011) *Model Validation in a Tool-based Methodology for System Testing of Service-Oriented Systems*. International Journal On Advances In Software, 4(1-2), pp. 129-143.
- [31] Breu, R., Agreiter, B., Farwick, M., Felderer, M., Hafner, M. and Innerhofer-Oberperfler, F. (2011) *Living Models - Ten Principles for Change-Driven Software Engineering*. International Journal of Software and Informatics, 5(1-2), pp. 267-290.

Papers in Conference and Workshop Proceedings

- [32] Cruzes, D. S., Felderer, M., Oyetyoyan, 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.
- [33] Felderer, M., Winkler, D., Biffl, D. (2017) *Hybrid Software and System Development in Practice: Initial Results from Austria*. The 18th International Conference on Product-Focused Software Process Improvement (PROFES 2017), pp. 435-442, Springer.
- [34] Beer, A., Junker, M., Femmer, H., Felderer, M. (2017) *Initial Investigations on the Influence of Requirement Smells on Test-Case Design*. 25th IEEE International Requirements Engineering Conference Workshops (REW 2017), IEEE.
- [35] Kalinowski, M., Curty, P., Paes, A., Ferreira, A., Spínola, R., Méndez Fernández, D., Felderer, M., Wagner, S. (2017) *Supporting Defect Causal Analysis in Practice with Cross-Company Data on Causes of Requirements Engineering Problems*. International Conference on Software Engineering: Software Engineering in Practice Track (ICSE 2017), pp. 223-232, IEEE.

- [36] 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.
- [37] 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**
- [38] 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.
- [39] 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.
- [40] 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.
- [41] Ammenwerth, E., Hackl, W. O., Felderer, M., Hörbst, A. (2017) *Gruppendiskurse im virtuellen Lernraum: Förderung und Evaluierung der Critical Inquiry*. 25. Jahrestagung der Gesellschaft für Medien in der Wissenschaft (GMW 2017), pp. 170-176, Waxmann.
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- [43] Ramler, R., Felderer, M., Leitner, M. (2017) *Towards a Lightweight Approach for Estimating Probability in Risk-Based Software Testing*. 4th International Workshop on Risk Assessment and Risk-driven Quality Assurance (RISK 2016), pp. 115-128, Springer.
- [44] Kuhrmann, M., Diebold, P., Münch, J., Tell, P., Garousi, V., Felderer, M., Trektere, K., McCaffery, F., Linssen, 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.
- [45] Felderer, M., Auer, F. (2017) *Software Quality Assurance During Implementation: Results of a Survey in Software Houses from Germany, Austria and Switzerland*, Software Quality Days (SWQD 2017), pp. 87-102, Springer.
- [46] 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.
- [47] 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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- [49] Ramler, R., Felderer, M. (2016) *Requirements for Integrating Defect Prediction and Risk-based Testing*. 42th EUROMICRO Conference on Software Engineering and Advanced Applications (SEAA 2016), pp. 359-362, IEEE.
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- [53] 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**
- [54] 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.
- [55] Sauerwein, C., Gander, M., Felderer, M., Breu, R. (2016) *A Systematic Literature Review of Crowdsourcing-Based Research in Information Security*. International Symposium on Software Crowdsourcing (ISSC 2015), pp. 364-371, IEEE.
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- [61] 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**
- [62] 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.
- [63] 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**
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- [96] Felderer, M., Ramler, R. (2013) *Experiences and Challenges of Introducing Risk-Based Testing in an Industrial Project*. Software Quality Days 2013, pp. 10-29, Springer. **Industrial Experience Best Paper Award.**
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