

H. Gül Çalık

Curriculum Vitae

22.10.2023



contact information

School of Computing
Science,
University of Glasgow,
Glasgow
G12 8QQ
Scotland, U.K.

handangul.calikli@
glasgow.ac.uk;

gulcalikli@github.io

orcid

0000-0003-4578-1747

publication indexes

<http://GoogleScholar>
<http://DBLP>

languages

Turkish native
English: fluent
Swedish: conversational
German: can read with dictionary

professional memberships

ACM

EDUCATION

- 2012 **Ph.D.** in Computer Engineering, **Boğaziçi University, Turkey**
Thesis: “Improving Performance of Defect Predictors Using Confirmation Bias Metrics”
- 2004 **M.Sc.** in Computer Engineering, **Boğaziçi University, Turkey**
Thesis: “A Policy Specification language for an 802.11 WLAN with Enhanced Security Network”
- 2000 **B.Sc.** in Mechanical Engineering, **Boğaziçi University, Turkey**

PROFESSIONAL APPOINTMENTS

- 09.2021–now **lecturer**, **University of Glasgow, Scotland, U.K.**
Lecturer (Assistant Professor) in Software Engineering (SE) at the School of Computing.
- 09.2020–09.2021 **senior researcher**, **University of Zurich, Switzerland**
Research in empirical Software Engineering with focus on human aspects, data analytics and experimentation in the context of code review.
- 09.2016–09.2020 **universitetslektor**, **University of Gothenburg, Sweden**
Research in empirical SE with focus on human aspects. Taught 6 SE courses & 1 basic Computer Science (CS) course with 9 instances in total. Supervised B.Sc., M.Sc. and Ph.D. students.
- 10.2013–09.2016 **postdoc fellow**, **The Open University, UK**
Worked in the EPSRC funded “Privacy Dynamics” project for the design & development of privacy-aware software using theories from social psychology & logic based Machine Learning (ML).
- 08.2012–09.2013 **postdoc fellow**, **Ryerson University, Canada**
Worked at Data Science Lab with focus on data analytics and ML in SE & human cognitive aspects.
- 01.2003–06.2012 **research assistant**, **Boğaziçi University, Turkey**
Worked as a teaching assistant of 13 CS courses and at industrial research projects in collaboration with IBM Canada, Logo Software, Turkcell and IBTech.
- 09.2000–12.2002 **R&D engineer**, **Alarko-Carrier, Turkey**
Developed software to modify submersible pump shafts’ and burner fans’ designs.

AWARDS

2023	Distinguished Reviewer Award	ICSME 2023
2022	ACM SIGSOFT Distinguished Paper Award “First Come First Served: The Impact of File Position on Code Review”	ESEC/FSE 2022
2022	Distinguished Reviewer Award	ICPC 2022
2021	ACM SIGSOFT Distinguished Paper Award “Why don’t Developers Detect Improper Input Validation?”; DROP TABLE Papers; –”	ICSE 2021
2020	ACM SIGSOFT Distinguished Artifact Award “Primers or Reminders? The Effects of Existing Review Comments on Code Review”	ICSE 2020
2013	Best Paper Award , Industry Track, (First Author) “Towards a Metrics Suite Proposal to Quantify Confirmation Biases of Developers”	ESEM 2013

GRANTS & FUNDING

2018	Chalmers Area of Advance SEED Funding “SEFIS: Software Engineering for Intelligent Systems”	PI, 100k SEK
2017	Chalmers SWC Project# 3: Metrics “Continuous Product & Organisational Performance” (Sprints 13-14)	Co-PI, ~120k SEK
2016	Chalmers SWC Project# 1: Metrics “Implications of Continuous Deployment” (Sprint 12)	Co-PI, ~60k SEK

INVITED TALKS

2023	A Tale of Two Experiments: Is Security Developers’ Concern during Code Reviews? Edinburgh Napier University	Edinburgh, United Kingdom
2020	Advancing Research on Cognition in Software Engineering University of Zurich	Zurich, Switzerland
2019	Software Engineering for Intelligent Systems Chalmers ICT Area of Advance	Gothenburg, Sweden
2017	A Portfolio of Quality Metrics for Continuous Deployment Software Center Breakout Session	Gothenburg, Sweden
2016	Privacy Dynamics: Towards Privacy-aware Software Dept. of Computer Engineering, Bilgi University	Istanbul, Turkey
2014	Elicitation of Privacy Requirements Using Personas Department of Computing & Informatics, Bournemouth University	Dorset, UK

2014	Modelling Human Aspects in Software Engineering Department of Computer Engineering, Boğaziçi University	Istanbul, Turkey
2013	Confirmatory Behaviour of Software Developers Department of Computer Engineering, Gebze Technical University	Kocaeli, Turkey
2013	Confirmation Bias in Software Engineering Department of Computer Science, York University	Toronto, Canada
2012	Research 2.0: Confirmation Bias as a Human Aspect in Software Engineering Microsoft Research (video of the talk)	Redmond, WA, USA
2010	Prediction of Defect Density by Using Confirmation Bias Metrics Logo Software	Kocaeli, Turkey
2009	Confirmatory Biases of Developers and Testers Turkcell	Kocaeli, Turkey

PROFESSIONAL SERVICE

conference organisation committees

SPLC	Conference Chair, Systems and Software Product Lines Conference, 2018.
ICPC	Program Committee co-Chair (ERA Track), IEEE/ACM International Conference on Program Comprehension, 2024.

conference program committees

ASE	PC Member, IEEE/ACM International Conference on Automated Software Engineering, 2023 & 2022; PC member (Tool Demos Track), 2021.
ICSE	PC Member (Demonstrations Track), IEEE/ACM International Conference on Software Engineering, 2024.
ICPC	PC Member, IEEE/ACM International Conference on Program Comprehension, 2023 & 2022.
MSR	PC Member, International Conference on Mining Software Repositories, 2023 & 2022.
ICSME	PC Member, IEEE International Conference on Software Maintenance and Evolution, 2023.
EASE	PC Member (Visions & Emerging Results Track), International Conference on Evaluation and Assessment in Software Engineering, 2022.
CSCW	Associate Chair, ACM Conference on Computer Supported Cooperative Work and Social Computing, 2021.
QUATIC	PC member, International Conference on the Quality of Information and Communications, 2020.
SANER	PC member, IEEE International Conference on the Software Evolution and Re-engineering, 2017.

CSMR-WCRE PC member (ERA Track), Conference on Software Maintenance, Re-engineering and Reverse Engineering, 2014.

conference paper reviewing as a reviewer/sub-reviewer

CSCW ACM Conference on Computer Supported Cooperative Work and Social Computing; 2019, 2020.

ICSM International Conference on Software Maintenance; 2013.

ESEM International Symposium on Empirical Software Engineering and Measurement; 2010, 2011, 2012, 2013.

PROMISE International Symposium on Predictive Models in Software Engineering; 2010, 2011, 2012, 2013.

SEAA EUROMICRO Conference on Software Engineering and Applications; 2013.

ICSE International Conference on Software Engineering; 2011, 2012.

journal reviewing

TSE IEEE Transactions on Software Engineering, IEEE

IEEE Software (Special Issues) Diversity Crisis in Software Development; Green Software; Sentiment and Emotion in Software Engineering, IEEE

EMSE Empirical Software Engineering, Springer

JSS Journal of Software and Systems, Elsevier

SQJ Software Quality Journal, Springer

IET Journal Institution of Software Engineering and Technology, IET

Transactions on Reliability IEEE Transactions on Reliability, IEEE

editorial assignments

Guest Editor IEEE Transactions on Industrial Informatics, Special Issue on Engineering Big Data Analytics Platforms on Internet of Things, 14(2):744-747, 2018.

TEACHING

teaching at the University of Glasgow, United Kingdom

Software Engineering (IT) (Spring 2022, Academic Year 2022-2023 \approx 300 students)

I am the coordinator of this graduate-level course offered mainly to the students of Information Technology Masters Program (together with Dr. Blair Archibald). The course is taught over two semesters: During the Fall (first) semester the course introduces students to the processes behind building software (e.g., Are we building the right thing? How to manage a project), covering agile software development practices, including Lean Software Development, Scrum and Kanban. The topics covered during the Spring (second) semester comprise good coding practices (e.g., reducing coupling, improving cohesion, error handling, safe classes and packages), unit testing and design patterns (e.g., singleton, iterator, composite, creational patterns).

Professional Software Development and Team Project (Academic Years 2021-2022 & 2022-2023, \approx 300 students)

The course, which is also taught throughout both semesters of an academic year (Fall and Spring semesters), introduces the students to modern software development methods and techniques for building and maintaining large systems. The course is delivered according to the Flipped Classroom Teaching Model and aims to: (1) prepare students to apply modern software development methods and techniques presented to them in the context of an extended group-based software development exercise; and (2) make the students aware of the professional, social and ethical dimensions of software development. My responsibilities in this course comprise supervising \sim 10 project teams, marking their project artifacts (e.g., GitLab repositories, dissertations), and marking exam papers (*course coordinator*: Dr. Tim Storer).

teaching at the University of Gothenburg, Sweden

Data Structures and Algorithms (Spring 2018-2020, \approx 85 students)

Students learn about algorithm complexity, recursion, sorting algorithms, and data structures (e.g., linked lists) and abstract data types (e.g., stacks and queues). In Spring 2018 term, I designed the course from scratch. In Spring 2019 term, I redesigned this course introducing three more course components besides lectures so that this instance consisted of the following course components: (1) Lectures, (2) hands-on programming sessions, (3) problem sessions and (4) supervision sessions. I prepared all course material of each component from scratch.

Mini Project Team Programming (Fall 2019, \approx 85 students)

Students learn about project management and human aspects (e.g., group dynamics, cognitive biases during lectures, that are complemented by hands-on exercises done in class. Students put theory they learn during lectures into practice while working on a software development project in groups.

Product, Project and People Management (Fall 2016-2017, \approx 65 students)

Students learn about software project management (e.g., scheduling, effort and cost estimation, risk management) and human aspects.

Mini Project: Systems Development (Spring 2018, \approx 50 students)

This is the updated version of the “Project: Systems Development” course (see below) in the new curriculum where the scope of the autonomous mini-car system to be developed is delimited to fewer features.

Change Management in Software Development Organisations (Fall 2016-2017, \approx 30 students)

This course focuses on explanatory theories on organizational change and change management in software industry.

Project: Systems Development (Spring 2017, \approx 65 students)

This is a software development project course, which employs problem-based learning technique. Students work in groups developing a system for autonomous mini-cars and develop skills in requirements analysis, software design, quality analysis, programming and testing.

Project: Changing Software Development Process (Fall 2017, \approx 15 students)

This is an elective course where students are expected to conduct an exploratory research study in industrial settings. This instance continue from the previous with two additional tutorials that I prepared for data collection and analysis techniques.

teaching at Ryerson University, Canada

Business Information Systems 1(Fall 2012, \approx 60 students)

This course was offered as a service course for students from various programs at the university.

Applied Research Methods (Fall 2012, \approx 30 students, **M.Sc./Ph.D.** level course)

Students learn about qualitative and quantitative research methods. In this course, I lectured on data collection methods in field studies (e.g., interviews, questionnaires, shadowing, observation synchronized shadowing, participant observation, think aloud protocols), statistical analysis techniques, qualitative measures and construct validity.

TEACHING EDUCATION

pedagogy courses completed (University of Glasgow, UK)

2023 **Creative Pedagogies for Active Learning** (EDUC5985)

This course provides with and helps explore the ways in which lecturers' pedagogy can be adapted for new and existing learning environments to enhance engagement and activity in teaching.

2023 **Course Design** (EDUC5983)

This course teaches how to design a course in lecturers' subject or discipline in a supportive environment. The course covers the following: (1) developing a rationale for introducing a new course; (2) designing an aligned course; (3) considering inclusive curricula; (4) including assessment and feedback that enhances your students' learning and (5) developing learning activities.

2022 **Assessments and Feedback** (EDUC5984)

This course provides with a structured approach to critique and enhance university teachers' assessment practices through engaging with the literature and consideration of the context of the taught discipline. The course also addresses issues such as plagiarism, providing useful feedback and a variety of assessment types.

pedagogy courses completed (University of Gothenburg, Sweden)

2019 **Supervision in Postgraduate Education** (HPE201), **University of Gothenburg**

This course discusses the context of the postgraduate programme, its organization and conditions as well as various research environments and supervision cultures. This course also covers every day practice and ethical dilemmas of supervision of doctoral students. Supervisor's responsibility for documentation, planning, and follow-up of the doctoral work and supervisor's role as a mentor into the science community are also discussed.

2018 **Teaching and Learning in Higher Education 1: Applied Analysis** (HPE103)

This course aims to enhance knowledge and ability to analyse, reflect, discuss and design a pedagogical development piece of work on the basis of science and proven experience.

2017 **Teaching and Learning in Higher Education 2: Pedagogy at the Faculty of Science** (HPE102)

This course teaches how to design courses that effectively teaches students to think like a scientist. The course teaches to use backward design to plan a course providing a tool box of examples of active teaching and assessment methods.

2017 **Teaching and Learning in Higher Education 1: Basic Course** (HPE101)

This foundational course offers an introduction to learning theories, teaching methods and student learning in higher education.

STUDENT SUPERVISION & MENTORING

2018-ongoing **Wardah Mahmood (Ph.D. Student), University of Gothenburg, Sweden**

“Software product line engineering and variability management”

Main Supervisor: Prof. Dr. Thorsten Berger

My Role: co-supervisor

2021-ongoing **Kelsey Collington (Ph.D. Student), University of Glasgow, UK**

“Enhancing Organisational Resilience in Nuclear Industries”

Main Supervisor: Prof. Dr. Dimitrios Pezaros

My Role: co-supervisor

2016-2021 **Katja Tuma (Ph.D. Student), University of Gothenburg, Sweden**

“Efficiency and Automation in Threat Analysis of Software Systems”

Main Supervisor: Prof. Dr. Riccardo Scandariato

My Role: co-supervisor

2016-2021 **Jacob Krüger (Ph.D. Student), Otto Von Guericke University, Germany**

“Feature oriented software evolution and human factors”

Supervisors: Prof. Dr. Gunter Saake, Prof. Dr. Thomas Leich and Prof. Dr. Thorsten Berger

My Role: mentor

2023 **Donald S. MacKenzie (B.Sc. student), University of Glasgow, UK**

“Analyzing GitHub Pull Requests to Investigate Developers’ Cognitive Biases during Code Review”

2023 **Cheuk Yeung Sophia Chung (B.Sc. student), University of Glasgow, UK**

“Investigating How Developers Engineer Test Cases and their Cognitive Biases: An Observational Study”

2023 **Zhe Yang (M.Sc. student), University of Glasgow, UK**

“SafeCode: A Real-Time Security Checking VSCode Plugin for JavaScript Developers”

- 2023 **Hao Ding (M.Sc. student), University of Glasgow, UK**
“Automated Identification of Issue Categories in Code Review Comments”
- 2023 **Gong Qiao (M.Sc. student), University of Glasgow, UK**
“Automated Unit test Generation for C++ using Large Language Models (LLMs)”
- 2023 **Bengxuan Zhao (M.Sc. student), University of Glasgow, UK**
“Assessing GitHub CoPilot’s Code Explanation Capabilities”
- 2023 **Vignesh Suvarna (M.Sc. student), University of Glasgow, UK**
“Comparative analysis of NLP and LLM-based Chatbots”
- 2022 **Yihan Liao (M.Sc. student), University of Glasgow, UK**
“SafeTweet, a Secure Social Network with Sensitive Information Detection”
- 2020 **Mohannad Alahdab (M.Sc. student), University of Gothenburg, Sweden**
“Empirical Analysis of Hidden Technical Debt Patterns in Machine Learning Software”
- 2017 **Mohammed Al-Eryani and Emil Baldebo (B.Sc. students), University of Gothenburg, Sweden**
“Effects of Automated Competency Evaluation on Software engineers’ Emotions and Motivation: a Case Study”

PhD EXAMINATION COMMITTEES

- 2019 Iflaah Salman, ‘The Effect of Confirmation Bias and Time Pressure on Software Testing’, Information Technology and Electrical Engineering, University of Oulu.

ADMINISTRATIVE DUTIES

- 2023-ongoing **Career Liaison Officer (University of Glasgow)**
Responsibilities include organising career events for students in collaboration with companies, including lectures on CV preparation and assessment centers, and CV Clinics. During CV Clinics students get feedback from software practitioners and Human Resources professionals from various companies on how to improve their CVs.
- 2017-2018 **B.Sc. Thesis Examination Committee Member (University of Gothenburg)**
Responsibilities included contributing to the preparation of templates and evaluation criteria for proposals, progress reports and final thesis reports as well as evaluation of the proposals and progress reports and the final reports.

REFERENCES

prof. dr. Alberto Bacchelli

Role: Associate Professor
Affiliation: University of Zurich
Address: Binzmühlstrasse 14, 8050 Zurich, Switzerland
Email: bacchelli@ifi.uzh.ch
Web: <https://www.ifi.uzh.ch/en/zest/team/bacchelli.html>
Phone: +41 44 635 75 39

prof. dr. Thorsten Berger

Role: Professor
Affiliation: Ruhr University Bochum; Chalmers & University of Gothenburg
Address: Universitätsstraße 150 ID-Gebäude, Postfach 11 44801 Bochum, Germany;
Hörselgängen 11, Gothenburg, Sweden
Email: thorsten.berger@rub.de; thorsten.berger@chalmers.se
Web: <http://www.cse.chalmers.se/~bergert/>
Phone: (+49)(0)234 / 32 - 25975; +46 31 772 6075

prof. dr. Bashar Nuseibeh

Role: Professor
Affiliation: The Open University
Address: Walton Hall, Kents Hill, Milton Keynes MK7 6AA, United Kingdom
Email: bashar.nuseibeh@open.ac.uk
Web: <http://www.open.ac.uk/people/ban25>
Phone: +44 1908-655185

prof. dr. Andy Zaidman

Role: Professor
Affiliation: Delft University of Technology
Address: Van Mourik Broekmanweg 6, 2628 XE Delft, The Netherlands
Email: a.e.zaidman@tudelft.nl
Web: <https://azaidman.github.io/home>
Phone: +31-15-2784385

prof. dr. Michel Chaudron

Role: Professor
Affiliation: Eindhoven University of Technology
Address: Groene loper 5, 5612 AZ Eindhoven, Netherlands
Email: m.r.v.chaudron@tue.nl
Web: <https://research.tue.nl/en/persons/michel-rv-chaudron>
Phone: +31 402479111

PUBLICATIONS

peer-reviewed journals

- J7** Pavlína Wurzel Gonçalves, **Gül Çalıkıı**, Alexanver Serebrenik, Alberto Bacchelli: Interpersonal Conflicts during Code Review: Developers' Experience and Practices. PACM Journal, 7, CSCW1, Article 38 (2023).
- J6** Pavlína Wurzel Gonçalves, **Gül Çalıkıı**, Alberto Bacchelli: Interpersonal Conflicts during Code Review: Developers' Experience and Practices. PACM Journal, 6, CSCW1, Article 98 (2022).
- J5** Katja Tuma, **Gül Çalıkıı**, Riccardo Scandariato: Threat analysis of software systems: A systematic literature review. Journal of Systems and Software 144: 275-294 (2018).
- J4** Jan-Philipp Steghöfer, Håkan Burden, Regina Hebig, **Gül Çalıkıı**, Robert Feldt, Imed Hammuda, Jennifer Horkoff, Eric Knauss, Grisca Liebel: Involving External Stakeholders in Project Courses. ACM Transactions on Computing Education TOCE 18(2): 8:1-8:32 (2018).
- J3** Blaine Price, Avelie Stuart, **Gül Çalıkıı**, Ciaran McCormick, Vikram Mehta, Luke Hutton, Arosha Bandara, Mark Levine, Bashar Nuseibeh: Logging you, Logging me: A Replicable Study of Privacy and Sharing Behaviour in Groups of Visual Lifeloggers. IMWUT 1(2): 22:1-22:18 (2017).
- J2** **Gül Çalıkıı** and Ayşe Bener. Empirical analysis of factors affecting confirmation bias levels of ofware engineers. Software Quality Journal 23(4): 695-722 (2015).
- J1** **Gül Çalıkıı** and Ayşe Bener. Influence of confirmation biases of developers on software quality: an empirical study. Software Quality Journal 21(2): 377-416 (2013).

peer-reviewed conference publications

- C21** Enrico Fregnan, Larissa Braz, Marco DÁmbros, **Gül Çalıkıı**, Alberto Bacchelli: First Come First Served: the Impact of File Position on Code Review. ESEC/FSE 2022. (*ACM SigSoft Distinguished Paper Award*).
- C20** Larissa Braz, Christian Aeberhard, **Gül Çalıkıı**, Alberto Bacchelli: Less is More: Supporting Developers in Vulnerability Detection during Code Review. ICSE2022.
- C19** Larissa Braz, Enrico Fregnan, **Gül Çalıkıı**, Alberto Bacchelli: Why don't Developers Detect Improper Input Validation?'; DROP TABLE PAPERS; --. ICSE2021. (*ACM SigSoft Distinguished Paper Award*).
- C18** Jacob Krüger, **Gül Çalıkıı**, Thorsten Berger, Thomas Leich: How Explicit Feature Traces Did Not Impact Developers' Memory. SANER2021 (RENE Track) (accepted).

- C17** Davide Spadini, **Gül Çalıklı**, Alberto Bacchelli: Primers or Reminders? The Effects of Existing Comments on Code Review. ICSE2020. (*ACM SigSoft Distinguished Artifact Award*)
- C16** Jacob Krüger, **Gül Çalıklı**, Thorsten Berger, Thomas Leich, Gunter Saake: Effects of explicit feature traceability on program comprehension. ESEC/SIGSOFT FSE 2019: 338-349.
- C15** Mohannad Alahdab, **Gül Çalıklı**: Empirical Analysis of Hidden Technical Debt Patterns in Machine Machine Learning Software. PROFES 2019: 195-202.
- C14** Rashidah Kasauli, Eric Knauss, Benjamin Kanagwa, Agneta Nilsson, **Gül Çalıklı**: Safety-Critical Systems and Agile Development: A Mapping Study. SEAA 2018: 470-477.
- W3** **Gül Çalıklı**, Mohammed Al-Eryani, Emil Baldebo, Jennifer Horkoff, Alexander Ask: Effects of automated competency evaluation on software engineers' emotions and motivation: a case study. SEmotion@ICSE 2018: 44-50.
- C13** **Gül Çalıklı**, Mirosław Staron, Wilhelm Meding: Measure early and decide fast: Transforming quality management and measurement to continuous deployment. ICSSP 2018: 51-60.
- C12** Yasmin Rafiq, Luke Dickens, Alessandra Russo, Arosha K. Bandara, Mu Yang, Avelie Stuart, Mark Levine, **Gül Çalıklı**, Blaine A. Price, Bashar Nuseibeh: Learning to share: engineering adaptive decision-support for online social networks. ASE 2017: 280-285.
- C11** **Gül Çalıklı**, Mark Law, Arosha K. Bandara, Alessandra Russo, Luke Dickens, Blaine A. Price, Avelie Stuart, Mark Levine, Bashar Nuseibeh: Privacy dynamics: learning privacy norms for social software. SEAMS@ICSE 2016: 47-56.
- W2** **Gül Çalıklı**, Blaine A. Price, Mads Schaarup Andersen, Bashar Nuseibeh, Arosha K. Bandara: Personal informatics for non-geeks: lessons learned from ordinary people. UbiComp Adjunct 2014: 683-686.
- C10** **Gül Çalıklı**, Ayşe Bener, Turgay Aytaç, Övünç Bozcan: Towards a Metric Suite Proposal to Quantify Confirmation Biases of Developers. ESEM 2013: 363-372. (*Best Industry Paper Award*)
- C9** **Gül Çalıklı**, Ayşe Bener: An algorithmic approach to missing data problem in modeling human aspects in software development. PROMISE 2013: 10:1-10:10.
- C8** **Gül Çalıklı**, Ayşe Bener: The Impact of Confirmation Bias on the Release-based Defect Prediction of Developer Groups. SEKE 2013: 461-466.
- C7** **Gül Çalıklı**, Ayşe Bener, Bora Çağlayan, Ayşe Tosun Mısırlı: Modeling Human Aspects to Enhance Software Quality Management. ICIS 2012.

- C6** Bora Çağlayan, Ayşe Tosun Mısırlı, **Gül Çalıklı**, Ayşe Bener, Turgay Aytaç, Burak Turhan: Dione: an integrated measurement and defect prediction solution. SIGSOFT FSE 2012: 20.
- C5** **Gül Çalıklı**, Ayşe Başar Bener: Preliminary analysis of the effects of confirmation bias on software defect density. ESEM 2010.
- C4** **Gül Çalıklı**, Ayşe Başar Bener, Berna Arslan: An analysis of the effects of company culture, education and experience on confirmation bias levels of software developers and testers. ICSE NIER Track 2010: 187-190.
- W1** **Gül Çalıklı**, Berna Arslan, Ayşe Bener: Confirmation Bias in Software Development and Testing: An Analysis of the Effects of Company Size, Experience and Reasoning Skills. PPIG 2010: 14.
- C3** **Gül Çalıklı**, Ayşe Başar Bener: Empirical analyses of the factors affecting confirmation bias and the effects of confirmation bias on software developer/tester performance. PROMISE 2010:10.'
- C2** **Gül Çalıklı** , Ayşe Tosun, Ayşe Başar Bener, Melih Çelik: The effect of granularity level on software defect prediction. ISCIS 2009: 531-536.
- C1** **Gül Çalıklı**, Ufuk Çağlayan: A Formal Policy Specification Language for an 802.1WLAN with Enhanced Security Network. ISCIS 2005: 183-192.

book chapters

- BC2** Ayşe Bener, Ayşe Tosun Mısırlı, Bora Çağlayan, Ekrem Kocagüneli, **Gül Çalıklı**: Lessons Learned from Software Analytics in Practice. The Art and Science of Analyzing Software Data 2015: 453-489.
- BC1** Ayşe Tosun Mısırlı, Ayşe Bener, Bora Çağlayan, **Gül Çalıklı**, Burak Turhan: Field Studies - A Methodology for Construction and Evaluation of Recommendation Systems in Software Engineering. 2014: 329-355.

technical reports

- TR6** Fernando Petruccio, Enrico Fregnan, David Ackerman, **Gül Çalıklı**Marco Castelluccio, Sylvestre Ledru, Calixte Denizet, Emma Humphries, Alberto Bacchelli: SZZ in the time of Pull Requests. CoRR abs/2209.03311 (2022).
- TR5** Jacob Krüger, **Gül Çalıklı**, Dmitri Bershadsky, Robert Heyer, Sarah Zabel, Siegmund Otto: Registered Report: A Laboratory Experiment on Using Different Financial-Incentivization Schemes in Software-Engineering Experimentation. CoRR abs/2202.10985 (2022).
- TR4** Larissa Braz, Christian Aeberhard, **Gül Çalıklı**, Alberto Bacchelli: Less is More: Supporting Developers in Vulnerability Detection during Code Review. CoRR abs/2202.04586 (2022).

- TR3** Larissa Braz, Enrico Fregnan, **Gül Çalıklı**, Alberto Bacchelli: Why don't Developers Detect Improper Input Validation? `'';DROP TABLE PAPERS; --`. CoRR abs/2102.06251 (2021)
- TR2** Jan-Philipp Steghöfer, Håkan Burden, Regina Hebig, Gül Çalıklı, Robert Feldt, Ime-Hammouda, Jennifer Horkoff, Eric Knauss, Grischa Liebel: Involving External Stakeholders in Project Courses. CoRR abs/1805.01151 (2018)
- TR1** Rashidah Kasauli, Eric Knauss, Benjamin Kanagwa, Joseph Kikombo Balikudembe, Agneta Nilsson, Gül Çalıklı: Safety-Critical Systems and Agile Development: A Mapping in Project Courses. CoRR abs/1805.01151 (2018).