



Short Bio

I completed a PhD in Computer Science at the Institute of Mathematics and Statistics at University of São Paulo in February 2015. Currently, I am an Assistant Professor at the School of Informatics, Computing and Cyber Systems at Northern Arizona University. I was an Assistant Professor at Federal University of Technology, Brazil and a Visiting Scholar at the University of California, Irvine from July 2013 to January 2014.

My research is on the intersection of Software Engineering (SE), HCI and Computer Supported Cooperative Work (CSCW). Currently, my main focus is on supporting newcomers to Open Source Software development, and how to leverage Open Source as an opportunity for learning new skills. My interests revolve around Human Aspects of Software Engineering, Empirical Software Engineering, Data Analysis, and Mining Software Repositories. I have experience on both quantitative and qualitative research, applying the methods and approaches that are most suitable for the problem and research.

Education

Title	Year	Institution
Ph.D. in Computer Science	2015	University of São Paulo (USP), Brazil
M.Sc. in Computer Sciences	2005	Federal University of Rio Grande do Sul (UFRGS), Brazil
Bachelor in Computer Science	2003	State University of Maringá (UEM), Brazil

Professional experience

Institution	Period	Position
Federal University of Technology – Paraná (UTFPR), Brazil Department of Computing	2009 – present	Associate Professor
Northern Arizona University (NAU), USA School of Informatics, Computing and Cyber Systems	2018 – 2020 2017 – 2018	Assistant Professor Post-doctoral Scholar
Independent Consulting on Open Source and Developers' Performance For local and Global companies	2020 – current	Consultant
University of California, Irvine (UCI), USA Department of Informatics	2013-2014	Visiting Scholar
HSBC Global Technology	2006-2009	Project Manager
CELEPAR – Data Processing Company of Paraná	2005-2006	Software Developer

Highlights

- Lead guest editor of the Thematic Series on Free and Open Source Software Development, SpringerOpen Journal of Internet Services and Applications (JISA)
- Guest-editor of the Special issue on “20 Years of Open Source—Impact on Software Engineering Practice” of IEEE Software
- Fellowship of research productivity (PQ) award (2021-present)
- Co-organizer of the 12th Workshop on Cooperative and Human Aspects of Software Engineering (CHASE 2019)
- Program Chair of the Software Engineering track of the ACM/IEEE International Conference on Global Software Engineering 2020 (ICGSE 2020); and ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2019)
- Received Best Paper/Distinguished Paper Awards on ICSE 2022, ICSE-SEET 2019, ICSME 2020, OpenSym 2021: all related to Open Source
- Principal Investigator of a collaborative NSF CHS Core Large grant (USD 1.5 million total)

- Supervising 3 M.Sc. student and 3 Ph.D. student
- Supervised 20+ undergraduate research students, 5 M.Sc. and 4 Ph.D.
- Program Committee (PC) member of many international conferences and workshops (e.g., ICSE, MSR, ICGSE, ICSME, EASE, OSS, CHASE, ICSE-NIER, CSCW)
- Reviewer of high-quality journals (EMSE, IST, CSCW, IET Software, ACM Computer Surveys, TSE)
- Citation index **H23** (Google Scholar)

Publications (Since 2010)

Books

- 1 2017 ZORZO, Avelino. F.; NUNES, Daltro J.; MATOS, Eivaldo S.; **STEINMACHER, Igor**; LEITE, Jair C.; ARAUJO, Renata; CORREIA, Ronaldo C. M.; MARTINS, Simone. **Referenciais de Formação para os Cursos de Graduação em Computação** 2017. 1. ed. Porto Alegre, RS: Sociedade Brasileira de Computação (SBC), 2017. v. 1. 153 p. ISBN: 9788576694243.

Journal Papers

- 25 2022 TRINKENREICH, Bianca; WIESE, Igor Scaliante; SARMA, Anita; GEROSA, Marco Aurelio; **STEINMACHER, Igor**. Women's Participation in Open Source Software: A Survey of the Literature. In: ACM Transactions on Software Engineering and Methodology (2022)
- 24 2022 MATSUBARA, Patricia; **STEINMACHER, Igor**; GADELHA, Bruno; CONTE, Tayana. SEXTAMT: A systematic map to navigate the wide seas of factors affecting expert judgment software estimates. Journal of Systems and Software 185: 111148 (2022)
- 23 2022 CALEFATO, Fabio; GEROSA, Marco A.; IAFFALDANO, Giuseppe; LANUBILE, Filippo; **STEINMACHER, Igor**. Will You Come Back to Contribute? Investigating the Inactivity of OSS Core Developers in GitHub. Empirical Software Engineering (To Appear)
- 22 2021 TRINKENREICH, Bianca; GUIZANI, Mariam; WIESE, Igor Scaliante; CONTE, Tayana U.; GEROSA, Marco Aurelio; SARMA, Anita; **STEINMACHER, Igor**. Pots of Gold at the End of the Rainbow: What is Success for Open Source Contributors? In: IEEE Transactions on Software Engineering. (2021)
- 21 2021 **STEINMACHER, Igor**; BALALI, Sogol; TRINKENREICH, Bianca; GUIZANI, Mariam; IZQUIERDO, Daniel; ZAMBRANO, Griselda Cuevas; GEROSA, Marco Aurelio; SARMA, Anita. Being a Mentor in Open Source Projects. Journal of Internet Services and Applications. (2021)
- 20 2020 OLIVEIRA, Edson; FERNANDES, Eduardo; **STEINMACHER, Igor**; CRISTO, Marco; CONTE, Tayana; GARCIA, Alessandro. Code and commit metrics of developer productivity: a study on team leaders' perceptions. Empirical Software Engineering (2020)
- 19 2020 PADALA, Susmita H.; MENDEZ, Christopher J.; DIAS, Luiz F.; **STEINMACHER, Igor**; HANSON, Zoe S.; HILDEBRAND, Claudia; HORVATH, Amber; HILL, Charles; SIMPSON, Logan Dale; BURNETT, Margaret; GEROSA, Marco A.; SARMA, Anita. How Gender-biased Tools Shape Newcomer Experiences in OSS Projects. IEEE Transactions on Software Engineering (2020)
- 18 2020 SILVA, Jefferson O.; WIESE, Igor; GERMAN, Daniel M.; TREUDE, Christoph; GEROSA, Marco A.; **STEINMACHER, Igor**. Google Summer of Code: Student Motivations and Contributions. JOURNAL OF SYSTEMS AND SOFTWARE, v. 99, 2019.
- 17 2019 SILVA, Williamson; **STEINMACHER, Igor**; CONTE, Tayana. Students' and instructors' perceptions of five different active learning strategies used to teach software modeling. *IEEE Access Journal*, 2019 (Pre-print)
- 16 2019 WIESE, Igor Scaliante; KURODA, Rodrigo; **STEINMACHER, Igor**; OLIVA, Gustavo Ansaldi; TREUDE, Christoph; GEROSA, Marco A. Are Pieces of Contextual Information Suitable for Predicting Co-Changes? An Empirical Study. *Software Quality Journal*, 2019
- 15 2019 SHOLLER, Dan; **STEINMACHER, Igor**; FORD, Denae; AVERICK, Mara; HOYE, Mike; WILSON, Greg. Ten Simple Rules for Helping Newcomers Become Contributors to Open Projects. *PLOS Computational Biology*, 2019.

- 14 2018 DIAS, Luiz Felipe; **STEINMACHER, Igor**; PINTO, Gustavo, Who Drives Company-Owned OSS Projects: Internals or Externals Members? *Journal of the Brazilian Computer Society*, 2018
- 13 2018 BERGAMINI, Anderson; **STEINMACHER, Igor**; WIESE, Igor Scaliante, Characterizing the hyperspecialists in the context of Crowdsourcing Software Development. *Journal of the Brazilian Computer Society*, 2018
- 12 2018 **STEINMACHER, Igor**; GEROSA, Marco A; CONTE, Tayana; REDMILES, David F. Overcoming Social Barriers when Contributing to Open Source Software Projects. In: *Computer Supported Cooperative Work*, 2018.
- 11 2018 PINTO, Gustavo; **STEINMACHER, Igor**; DIAS, Luiz Felipe; GEROSA, Marco A. On the Challenges of Open-Sourcing Proprietary Software Projects. In: *Empirical Software Engineering Journal*, 2018.
- 10 2018 BALALI, Sogol; **STEINMACHER, Igor**; ANNAMALAI, Umayal; SARMA, Anita; GEROSA, Marco A. Newcomers' Barriers... Is That All? An Analysis of Mentors' and Newcomers' Barriers in OSS Projects. *Computer Supported Cooperative Work*, 2018.
- 9 2018 **STEINMACHER, Igor**; TREUDE, Christoph; GEROSA, Marco A. Let me in: Guidelines for the Successful Onboarding of Newcomers to Open Source Projects. *IEEE SOFTWARE*, p. 1-1, 2018.
- 8 2017 **STEINMACHER, Igor**; ROBLES, Gregorio; FITZGERALD, Brian; WASSERMAN, Anthony. Free and open source software development: the end of the teenage years. *Journal of Internet Services and Applications*, v. 8, p. 17, 2017.
- 7 2017 ZANATTA, Alexandre L.; **STEINMACHER, Igor**; MACHADO, Leticia S.; de SOUZA, Cleidson; PRIKLACNICKI, Rafael. Barriers Faced by Newcomers in Software Crowdsourcing Projects, *IEEE Software*, Mar/Apr 2017
- 6 2017 WIESE, Igor Scaliante; RÉ, Reginaldo; **STEINMACHER, Igor**; KURODA, Rodrigo T.; OLIVA, Gustavo A.; TREUDE, Christoph; GEROSA, Marco A. Using Contextual Information to Predict Co-changes. *The Journal of Systems and Software*, p. 1-15, 2017.
- 5 2015 **STEINMACHER, Igor**; GRACIOTTO SILVA, Marco A.; GEROSA, Marco A.; REDMILES, David F. A systematic literature review on the barriers faced by newcomers to open source software projects. *Information and Software Technology*, v. 59, p. 67-85, 2015.
- 4 2014 WIESE, Igor S.; NASSIF JUNIOR, D.; RÉ, Reginaldo; **STEINMACHER, Igor**; GEROSA, Marco A. Comparing communication and development networks for predicting file change proneness: An exploratory study considering process and social metrics. *Electronic Communications of the EASST*, v. 65, p. 1-15, 2014.
- 3 2014 **STEINMACHER, Igor**; WIESE, Igor S.; SCHWERZ, André Luís; ROBERTO, Rafael Liberato; FERREIRA, João Eduardo; GEROSA, Marco A. Historical Analysis of Message Contents to Recommend Issues to Open Source Software Contributors. *Revista Eletrônica de Sistemas de Informação*, v. 13, p. 6, 2014.
- 2 2013 **STEINMACHER, Igor**; CHAVES, Ana Paula; Gerosa, Marco A. Awareness Support in Distributed Software Development: A Systematic Review and Mapping of the Literature. *Computer Supported Cooperative Work*, v. 22, p. 113-158, 2013.
- 1 2011 CHAVES, Ana Paula; **STEINMACHER, Igor**; LEAL, Gislaíne Camila; HUZITA, Elisa Hatsue Moriya, BIASÃO, Alberto B. OntoDiSEnv1: an Ontology to Support Global Software Development. *CLEI Electron. J.* 14(2). 2011

Peer Reviewed Conference and Workshop Papers

- 78 2022 WESSEL, MAIRIELI ; ABDELLATIF, Ahmad ; WIESE, Igor Scaliante ; CONTE, Tayana U. ; SHIHAB, Emad ; GEROSA, Marco Aurelio ; **STEINMACHER, Igor**. Bots for Pull Requests: The Good, the Bad, and the Promising. In: 44th International Conference on Software Engineering (ICSE 2022), 2022. p. 1-13.
- 77 2022 GUIZANI, Mariam; TRINKENREICH, Bianca; CASTRO-GUZMAN, Aileen A.; **STEINMACHER, Igor**; GEROSA, Marco; SARMA, Anita. Perceptions of the State of D&I and D&I Initiative in the ASF. 44th

		International Conference on Software Engineering - Software Engineering in Society Track (ICSE-SEIS 2022)
76	2022	GUIZANI, Mariam; STEINMACHER, Igor; EMARD, Jillian; FALLATAH, Abrar; BURNETT, Margaret; SARMA, Anita. How to Debug Inclusivity Bugs? A Debugging Process with Information Architecture. 44th International Conference on Software Engineering - Software Engineering in Society Track (ICSE-SEIS 2022)
75	2022	TRINKENREICH, Bianca; BRITTO, Ricardo; GEROSA, Marco; STEINMACHER, Igor. An Empirical Investigation on the Challenges Faced by Women in the Software Industry: A Case Study. In: 44th International Conference on Software Engineering - New Ideas and Emerging Results Track (ICSE-NIER 2022), 2022.
74	2022	MATSUBARA, Patricia; STEINMACHER, Igor; GADELHA, Bruno; CONTE, Tayana. The best defense is a good defense: adapting negotiation methods for tackling pressure over software project estimates. In: 44th International Conference on Software Engineering - New Ideas and Emerging Results Track (ICSE-NIER 2022), 2022.
73	2021	DIAS, Edson; MEIRELLES, Paulo; CASTOR, Fernando; STEINMACHER, Igor ; WIESE, Igor; PINTO, Gustavo. What Makes a Great Maintainer of Open Source Projects? In: 43rd ACM/IEEE International Conference on Software Engineering. Madrid, Spain. June 2021.
72	2021	GEROSA, Marco A.; WIESE, Igor; TRINKENREICH, Bianca; LINK, Georg; ROBLES, Gregorio; TREUDE, Christoph; STEINMACHER, Igor ; SARMA, Anita. The Shifting Sands of Motivation: Revisiting What Drives Contributors in Open Source. In: 43rd ACM/IEEE International Conference on Software Engineering. Madrid, Spain. June 2021.
71	2021	WESSEL, Mairieli; WIESE, Igor; GEROSA, Marco A.; STEINMACHER, Igor . Don't Disturb Me: Challenges of Interacting with Software Bots on Open Source Software Projects. In: ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2021), 2021
70	2021	GUIZANI, Mariam; CHATTERJEE, Amreeta, TRINKENREICH, Bianca; MAY, Mary Evelyn; NOA, Geraldine J.; RUSSEL, Liam J.; ZAMBRANO, Griselda Cuevas; IZQUIERDO, Daniel; STEINMACHER, Igor ; GEROSA, Marco A.; SARMA, Anita. The Long Road Ahead: Ongoing Challenges in Contributing to Large OSS Organizations and What to Do. In: ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2021), 2021.
69	2021	SANTOS, Fabio; WIESE, Igor; TRINKENREICH, Bianca; STEINMACHER, Igor ; SARMA, Anita; GEROSA, Marco A. Can I Solve it? Identifying the APIs required to complete OSS tasks. In: International Conference on Mining Software Repositories (MSR 2021), 2021, Virtual. International Conference on Mining Software Repositories (MSR 2021), 2021. p. 1-12.
68	2021	MATSUBARA, Patricia; STEINMACHER, Igor ; GADELHA, Bruno; CONTE, Tayana. Buying time in software development: how estimates become commitments?. In: 14th International Conference on Cooperative and Human Aspects of Software Engineering (CHASE 2021), 2021, Virtual. 2021
67	2021	MATSUBARA, Patricia; STEINMACHER, Igor ; MALDONADO, José; GADELHA, Bruno; CONTE, Tayana. Trust yourself! Or maybe not: factors related to overconfidence and uncertainty assessments of software effort estimates. In: 2021 Brazilian Symposium on Software Engineering (SBES 2021), 2021.
66	2021	TONHÃO, Simone; COLANZI, Thelma; STEINMACHER, Igor . Using Real Worked Examples to Aid Software Engineering Teaching. In: 2021 Brazilian Symposium on Software Engineering - Education Track (SBES Education 2021), 2021.
65	2020	BALALI, Sogol; ANNAMALAI, Umayal; PADALA, Susmita; TRINKENREICH, Bianca; GEROSA, Marco A.; STEINMACHER, Igor ; SARMA, Anita. Recommending Tasks to Newcomers in OSS Projects: How Do Mentors Handle It? 16th International Symposium on Open Collaboration (OpenSym 2020) [Best Paper Award]
64	2020	FRONCHETTI, Luiz Felipe; BARBOSA, Caio; PINTO, Gustavo; STEINMACHER, Igor ; FONSECA, Balduino; RIBEIRO, Márcio; TREUDE, Christoph, ALENCAR, Daniel. Refactoring from 9 to 5? What and When Employees and Volunteers Contribute to OSS. In: IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC 2020)

63	2020	WESSEL, Mairieli; SEREBRENIK, Alexander; WIESE, Igor; STEINMACHER, Igor ; GEROSA, Marco A. What to Expect from Code Review Bots on GitHub? A Survey with OSS Maintainers. In: 2020 Brazilian Symposium on Software Engineering - Insightful Ideas and Emergent Results Track (SBES 2020).
62	2020	TONHÃO, Simone de França; COLANZI, Thelma Elita; STEINMACHER, Igor . Portal for Cataloging Worked Examples Extracted from Open Source Software. In: 2020 Brazilian Symposium on Software Engineering - Insightful Ideas and Emergent Results Track (SBES 2020).
61	2020	SILVA, Williamson; GADELHA, Bruno; STEINMACHER, Igor ; CONTE, Tayana U. Towards an Open Repository for Teaching Software Modeling applying Active Learning Strategies. In: 42nd International Conference on Software Engineering - Software Engineering Education and Training Track (ICSE-SEET 2020).
60	2020	BERTONCELLO, Marcus; PINTO, Gustavo; WIESE, Igor; STEINMACHER, Igor . Pull Requests or Commits? Which Method Should We Use to Study Contributors' Behavior?. In: 27th IEEE International Conference on Software Analysis, Evolution and Reengineering - REproducibility Studies and NEgative Results Track (SANER-RENE Track). 2020.
59	2020	ANDERSON, John; STEINMACHER, Igor ; RODEGHERO, Paige Assessing the Characteristics of FOSS Contributions in Network Automation Projects. In: 36th International Conference on Software Maintenance and Evolution (ICSME 2020).
58	2020	WESSEL, Mairieli; SEREBRENIK, Alexander; WIESE, Igor; STEINMACHER, Igor ; GEROSA, Marco A.. Effects of Adopting Code Review Bots on Pull Requests to OSS Projects. In: 36th International Conference on Software Maintenance and Evolution (ICSME 2020). [IEEE TCSE Distinguished Paper Award]
57	2020	ZANATTA, Alexandre; MACHADO, Leticia; STEINMACHER, Igor ; PRIKLADNICKI, Rafael; DE SOUZA, Cleidson R. B.. Strategies for Crowdworkers to Overcome Barriers in Competition-based Software Crowdsourcing Development. In: 13th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE Short Paper). 2020.
56	2020	SILVA, Jefferson; WIESE, Igor; GERMAN, Daniel; TREUDE, Christoph; GEROSA, Marco A.; STEINMACHER, Igor . A Theory of the Engagement in Open Source Projects via Summer of Code Programs. ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2020)
55	2020	MACHADO, Leticia; STEINMACHER, Igor ; MARCZAK, Sabrina; DE SOUZA, Cleidson R. B. How Online Forums Complement Task Documentation in Software Crowdsourcing. In: 13th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE). 2020.
54	2020	TRINKENREICH, Bianca; GUIZANI, Mariam; WIESE, Igor; SARMA, Anita; STEINMACHER, Igor . Hidden Figures: Roles and Pathways of Successful OSS Contributors. In: ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2020), 2020. [Honorable Mention]
53	2020	DOMINIC, James; HOUSER, Jada; STEINMACHER, Igor ; RITTER, Charles; RODEGHERO, Paige. Conversational Bot for Newcomers Onboarding to Open Source Projects. 2nd International Workshop on Bots in Software Engineering (BotSE). 2020.
52	2020	WESSEL, Mairieli; STEINMACHER, Igor . The Evil Side of Software Bots on Pull Requests. 2nd International Workshop on Bots in Software Engineering (BotSE). 2020.
51	2019	PINTO, Gustavo; FERREIRA, Clarice; SOUZA, Cleice; STEINMACHER, Igor ; MEIRELLES, Paulo. Training Software Engineers using Open-Source Software: The Students' Perspective. In: 41st International Conference on Software Engineering - Software Engineering Education and Training Track (ICSE-SEET 2019) , 2019 [BEST PAPER AWARD].
50	2019	NASCIMENTO, Elizamary; AHMED, Iftekhar; OLIVEIRA, Edson Cesar; PALHETA, Marcio P.; STEINMACHER, Igor ; CONTE, Tayana U. Understanding Development Process of Machine Learning Systems: Challenges and Solutions. In: ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM 2019) , 2019. p. 1-6.
49	2019	VAZ, Luis; STEINMACHER, Igor ; MARCZAK, Sabrina. What Information Matter? An Empirical Study on Task Documentation in Software Crowdsourcing. In: 14th International Conference on Global Software Engineering (ICGSE 2019) . 2019.

- 48 2019 IAFFALDANO, Giuseppe; **STEINMACHER, Igor**; CALEFATO, Fabio; GEROSA, Marco Aurélio; LANUBILE, Filippo. Why do developers take breaks from contributing to OSS projects? A preliminary analysis. In: **2nd International Workshop on Software Health (SoHeal 2019)**, 2019.
- 47 2019 WESSEL, Mairieli; **STEINMACHER, Igor**; WIESE, Igor; GEROSA, Marco Aurélio. Should I Stale or Should I Close? An Analysis of a Bot that Closes Abandoned Issues and Pull Requests. In: **1st International Workshop on Bots for Software Engineering (BotSE)**, 2019.
- 46 2019 FRONCHETTI, Luiz Felipe; WIESE, Igor; PINTO, Gustavo; **STEINMACHER, Igor**. What Attract Newcomers to Onboard on OSS Projects? TL;DR Popularity. In: **15th International Conference of Open-Source Systems (OSS)**, Montreal, Canada, 2019.
- 45 2019 PACHECO, Fabio; WIESE, Igor Scaliante; **STEINMACHER, Igor**; CARTAXO, Bruno; PINTO, Gustavo. How Open is the SBES PC Community?. In: **Proceedings of the 33rd Brazilian Symposium on Software Engineering (SBES 2019)**, 2019. p. 1-5.
- 44 2019 LOPES, Adriana; **STEINMACHER, Igor**; CONTE, Tayana U. UML Acceptance: Analyzing the Students Perception of UML Diagrams. In: **Proceedings of the 33rd Brazilian Symposium on Software Engineering (SBES 2019)**, 2019. p. 1-10.
- 43 2018 WESSEL, Mairieli; DE SOUZA, Bruno M.; **STEINMACHER, Igor**; WIESE, Igor; POLATO, Ivanilton; CHAVES, Ana Paula; GEROSA, Marco Aurélio. The Power of Bots: Characterizing and Understanding Bots in Open Source Software Projects. In: **ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW 2018)**.
- 42 2018 ANICHE, Mauricio; TREUDE, Christoph; **STEINMACHER, Igor**; WIESE, Igor S.; PINTO, Gustavo; STOREY, Margaret-Anne; GEROSA, Marco A. How Modern News Aggregators Help Development Communities Shape and Share Knowledge. In: **Proceedings of the 40th International Conference on Software Engineering (ICSE'18)**, 2018. p. 1-12.
- 41 2018 **STEINMACHER, Igor**; PINTO, Gustavo; WIESE, Igor Scaliante; GEROSA, Marco A. Almost There: A Study on Quasi-Contributors in Open-Source Software Projects. In: **Proceedings of the 40th International Conference on Software Engineering (ICSE'18)**, 2018. p. 1-12.
- 40 2018 VAZ, Luis; MARCZAK, Sabrina; **STEINMACHER, Igor**. An Empirical Study on Task Documentation in Software Crowdsourcing: the Case of the TopCoder Platform. **Brazilian Symposium on Software Engineering (SBES 2018): 62-71 [BEST PAPER AWARD]**
- 39 2018 SILVA, Williamson; GADELHA, Bruno; **STEINMACHER, Igor**; CONTE, Tayana. What are the differences between group and individual modeling when learning UML? In: **Brazilian Symposium on Software Engineering (SBES 2018)**. 308-317
- 38 2018 FERREIRA, Clarice; SOUZA, Cleice; PINTO, Gustavo; **STEINMACHER, Igor**; MEIRELLES, Paulo. When students become contributors: leveraging OSS contributions in software engineering courses. In: **Brazilian Symposium on Software Engineering (SBES 2018)**. 260-269
- 37 2018 TOSCANI, Carolina; GERY, Daniel; **STEINMACHER, Igor**; MARCZAK, Sabrina. A Gamification Proposal to Support the Onboarding of Newcomers in the FLOSScoach Portal. In: **Brazilian Symposium on Human Factors in Computing Systems (IHC 2018)**. 1:1-1:10
- 36 2018 PINTO, Gustavo; **STEINMACHER, Igor**; GEROSA, Marco Aurélio. Leaving Behind the Software History When Transitioning to Open-Source: Reasons and Implications. In: **The 14th International Conference on Open Source Systems (OSS 2018)**, 2018. p. 1-10.
- 35 2018 ZANATTA, Alexandre; MACHADO, Leticia; **STEINMACHER, Igor**. Competence, Collaboration and Time Management: Barriers and Recommendations for Crowdworkers. In: **The 5th International Workshop on Crowd Sourcing in Software Engineering (CSI-SE 2018)**, 2018. p. 1-8.
- 34 2018 PINTO, Gustavo; DIAS, Luiz Felipe; **STEINMACHER, Igor**. Who Gets a Patch Accepted First? Comparing the Contributions of Employees and Volunteers. In: **11th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE 2018)**, 2018. p. 1-4.
- 33 2017 PINTO, Gustavo; **STEINMACHER, Igor**; FIGUEIRA FILHO, Fernando M.; GEROSA, Marco A. Training the Next Generation of Software Engineers using Open Source Software: An Interview Study. In: **30th IEEE Conference on Software Engineering Education and Training (CSEE&T)**, 2017. p. 117-121

- 32 2017 SILVA, Williamson; **STEINMACHER, Igor**; CONTE, Tayana U. Is It Better to Learn from Problems or Erroneous Examples? In: **30th IEEE Conference on Software Engineering Education and Training (CSEE&T)**, 2017. p. 222-231
- 31 2017 SILVA, Jefferson O.; WIESE, Igor S.; **STEINMACHER, Igor**; GEROSA, Marco A. Students' Engagement in Open Source Projects. In: **Proceedings of the 31st Brazilian Symposium on Software Engineering - SBES'17**. 2017. p. 224-233.
- 30 2017 SILVA, Jefferson O.; WIESE, Igor S.; GERMAN, Daniel; **STEINMACHER, Igor**; GEROSA, Marco Aurelio. How Long and How Much: What to Expect from Summer of Code Participants?. In: **33rd IEEE International Conference on Software Maintenance and Evolution (ICSME)**, 2017. p. 69-79.
- 29 2017 DINIZ, Guilherme; GRACIOTTO SILVA, Marco A.; GEROSA, Marco Aurélio; **STEINMACHER, Igor**; Using Gamification to Orient and Motivate Students to Contribute to OSS projects. In: **10th International Workshop on Cooperative and Human Aspects of Software Engineering (CHASE 2017)**, Buenos Aires, Argentina. 2017. p. 1-7.
- 28 2016 **STEINMACHER, Igor**; CONTE, Tayana; TREUDE, Christoph; GEROSA, Marco A. Overcoming open source project entry barriers with a portal for newcomers. In: **Proceedings of the 38th International Conference on Software Engineering (ICSE '16)**. p. 273-284.
- 27 2016 PINTO, Gustavo; **STEINMACHER, Igor**; GEROSA, Marco A. More Common Than You Think: An In-depth Study of Casual Contributors. In: **2016 IEEE 23rd International Conference on Software Analysis, Evolution, and Reengineering (SANER)**. p. 112-113.
- 26 2016 WIESE, Igor S.; **STEINMACHER, Igor**; TREUDE, Christoph; SILVA, José Teodoro; GEROSA, Marco A. Who is who in the mailing list? Comparing six disambiguation heuristics to identify multiple addresses of a participant. In: **Proceedings of the 32nd IEEE International Conference on Software Maintenance and Evolution (ICSME)**, 2016. p. 1-10.
- 25 2016 SARMA, Anita; GEROSA, Marco Aurélio; **STEINMACHER, Igor**; Leano, Rafael. Training the Future Workforce through Task Curation in an OSS Ecosystem. In: **Foundations on Software Engineering (FSE'16) - Visions and Reflections track**, 2016, Seattle, WA. 2016. p. 934-937.
- 24 2016 DIAS, Luiz Felipe F.; **STEINMACHER, Igor**; PINTO, Gustavo H. L.; COSTA, Daniel A.; GEROSA, Marco Aurelio. How Does the Shift to GitHub Impact Project Collaboration? In: **2nd International Conference on Software Maintenance and Evolution (Early Research Achievements)**. Raleigh, NC, USA. 2016
- 23 2016 NASCIMENTO, Elizamary; SILVA, Williamson; **STEINMACHER, Igor**; MASSOLLAR, Jobson; TRAVASSOS, Guilherme H.; CONTE, Tayana U. Uma imagem fala mais que mil palavras? Análise comparativa entre o uso de abordagens textual e gráfica para especificar Casos de Uso. In: **XXX Simpósio Brasileiro de Engenharia de Software**, 2016. p. 1-10.
- 22 2015 **STEINMACHER, Igor**; CONTE, Tayana; GEROSA, Marco A. Understanding and Supporting the Choice of an Appropriate Task to Start with in Open Source Software Communities. In: **2015 48th Hawaii International Conference on System Sciences (HICSS)**, 2015. p. 5299-5308.
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Service

Journal Editor

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- Co-Guest Editor of the IEEE Software Thematic Series: 20 Years of Open Source

Program Committee Chair

- Co-Program Chair of the International Conference on Software and Systems Process (ICSSP 2022)
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- Program Chair of the Software Engineering track of the ACM/IEEE International Conference on Global Software Engineering 2020 (ICGSE 2020);
- Program Co-Chair of the International Doctoral Symposium on Empirical Software Engineering (IDoESE 2020);
- Program Co-Chair of the ACS/IEEE International Conference on Computer Systems and Applications (AICCSA 2019)

Program Committee Membership

- ICSE: International Conference on Software Engineering (2022, 2023)
- GROUP: ACM International Conference on Supporting Group Work (2020)
- ICSE-SEIS: International Conference on Software Engineering – Software Engineering in Society (2020)
- SANER-Tool: International Conference on Software Analysis, Evolution and Reengineering – Tool Track (2019, 2020)
- BotSE: International Workshop on Bots for Software Engineering (2019)
- ACM CSCW: International Conference on Computer Supported Cooperative Work and Social Computing (2019)
- ICSE-NIER: International Conference on Software Engineering – New Ideas and Emerging Results (2019)
- ICGSE: IEEE International Conference on Global Software Engineering (2016, 2017, 2018, 2019)
- SBES: Brazilian Symposium on Software Engineering (2017, 2018, 2019)
- OSS: International Conference on Open Source Systems (2017, 2018)
- ICSME: International Conference on Software Maintenance and Evolution (2017) – Artifacts Track
- CHASE: International Workshop on Cooperative and Human Aspects of Software Engineering (2017, 2018)
- EASE: Evaluation and Assessment in Software Engineering Conference (2017, 2018)
- CibSE: Iberoamerican Congress of Software Engineering (2016, 2017)
- SBSC: Brazilian Symposium on Collaborative Systems (2015, 2016, 2017)
- VEM: Workshop on Software Visualization, Evolution, and Maintenance (2015, 2016, 2017)

Event Organization

- 2021 ICSSP-ICGSE: Virtualization co-chair
- 12th Workshop on Cooperative and Human Aspects of Software Engineering (CHASE 2019): Co-organizer
- AZ Computing Postdocs Best Practices (2017)
- 2016 Brazilian Conference on Software: Theory and Practice (CBSOFT 2016): General Co-chair

- Workshop sobre Aspectos Sociais, Humanos e Econômicos de Software (WASHES 2016): Co-organizer
- Free/Libre Open Source Software Workshop (Workshop de Software Livre – 2014, 2015): General Chair
- 2012 Brazilian Symposium on Collaborative Systems (SBSC 2012): Member of the Organizing Committee

Journal Reviews

- Transactions on Software Engineering
- ACM Computer Surveys
- Communications of ACM
- Empirical Software Engineering
- Journal of Software: Evolution and Process
- Journal of Systems and Software
- IET Software
- Computer Standards & Interfaces
- Computer Supported Cooperative Work
- Journal of Brazilian Computer Society

Conferences Reviews

- FSE: SIGSOFT Symposium on the Foundations of Software Engineering (2017)
- ACM CSCW: International Conference on Computer Supported Cooperative Work (2015, 2016, 2017)
- ICSE: International Conference on Software Engineering (2014)
- CSMR: European Conference on Software Maintenance and Reengineering (2014)
- CRIWG: International Conference on Collaboration and Technology (2013, 2014, 2015)
- CHASE: Workshop on Human Aspects of Software Engineering (2014, 2015)
- SBES: Brazilian Symposium on Software Engineering (2013, 2014, 2015, 2016)
- SBSC: Brazilian Symposium on Collaborative Systems (2010, 2013, 2014, 2016)

Other Services

- IEEE International Conference on Software Maintenance and Evolution (ICSME 2022): Proceedings Chair
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- Member of Collaborative Systems Special Interest Group (CESC) - Brazilian Computer Society (2015-2016)

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