



Edson Oliveira Jr

🌐 Nationality: Brazilian
📅 Apr 16th 1978
🎓 Titles: **Ph.D., Master's, and Bachelor** in *Computer Science*
🗣️ Languages: *Portuguese, English*

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● <https://dblp.org/pid/04/2051.html>
🎓 ACM Member: #1783962

SUMMARY STATEMENT

I am an Associate Professor at the State University of Maringá, Brazil. I hold a Ph.D. in Computer Science from the University of São Paulo (USP), Brazil. I was a visitor scholar at the University of Waterloo, Canada in 2009. My **Software Engineering** research interests include: Software Product Lines, Software Process Lines, Variability Management, Software Architecture and Evaluation, Metrics, Model-driven Engineering, UML and Metamodeling, and Evidence-based Software Engineering. In addition, I research on **Digital Forensics** experimentation and **Open Science** as a FAIR path to research openness and reproducibility.

EMPLOYMENT HISTORY

2019-now	State University of Maringá , Maringá-PR, Brazil. <i>Associate Professor of Software Engineering.</i>
2011–2019	State University of Maringá , Maringá-PR, Brazil. <i>Assistant Professor of Software Engineering.</i>
2003–2005	Caixa Econômica Federal - Brazilian National Public Bank , Maringá-PR, Brazil. <i>Software Analyst.</i>
2001–2011	Independent Java Consultant and Instructor , Maringá-PR, Brazil.

VISITING RESEARCHER/SABBATICAL

sep/18-mar/20	Experimentation of Digital Forensics PONTIFICAL CATHOLIC UNIVERSITY OF RIO GRANDE DO SUL · Porto Alegre-RS, Brazil 📍 Digital Forensics, Empirical Studies, Conceptual Models, Reproducibility, Open Science
aug/22-feb/23	Digital Forensics Education PONTIFICAL CATHOLIC UNIVERSITY OF RIO GRANDE DO SUL · Porto Alegre-RS, Brazil 📍 Digital Forensics, Education, Empirical Studies, Research Agenda, Course Curricula, Course Deployment, Course Evaluation, Syllabus, Open Science

VISITING SCHOLAR EXPERIENCE

feb-dec/2009	UML-based Software Product Lines STAR LAB. AT THE UNIVERSITY OF WATERLOO · Waterloo, Ontario, Canada 📍 SPL, variability, controlled experiments, metrics, architecture evaluation
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EDUCATION

2006–2010	Ph.D. in Computer Science UNIVERSITY OF SÃO PAULO · São Carlos-SP, Brazil 📍 Software Product Line Architecture Evaluation, Metrics, Metamodels, Empirical Software Engineering
2003–2005	Master's in Computer Science STATE UNIVERSITY OF MARINGÁ · Maringá-PR, Brazil 📍 Software Reuse, Software Product Lines, Empirical Software Engineering
1998–2002	Bachelor in Informatics STATE UNIVERSITY OF MARINGÁ · Maringá-PR, Brazil 📍 Emphasis in Software Engineering

SUPERVISIONS

- **Bachelor's Degree:** current 00, concluded 36
- **Scientific Initiation Projects:** current 04, concluded 21
- **MBA or Specialization Course:** current 00, concluded 39
- **Master's Degree:** current 02, concluded 27
- **Ph.D.:** current 05, concluded 00

PROFESSIONAL CERTIFICATIONS

2010	Sun Certified Enterprise Architect (SCEA) , Sun Microsystems.
2006	Sun Certified Business Component Developer (SCWCD) , Sun Microsystems.
2005	Sun Certified Web Component Developer (SCWCD) , Sun Microsystems.
2005	Sun Certified Java Associate (SCJA) , Sun Microsystems.
2004	Sun Certified Java Programmer (SCJP) , Sun Microsystems.
2004	Sun Certified Java Developer (SCJD) , Sun Microsystems.

RESEARCH INTERESTS

- **Software Product Lines** - UML-based SPLs, variability, architecture evaluation, and tools
- **Software Process Lines** - process tailoring, variability, and tools
- **Software Architecture and Evaluation**
- **Model-driven Engineering**
- **UML, SysML, and Metamodeling**
- **Evidence-based Software Engineering** - experiments, secondary studies, surveys, mixed methods, and quali/quant analysis
- **Education in Software Engineering**
- **Improvement of Software Engineering Experimentation** - repositories, ontology, recommender systems, metamodels, guidelines, and conceptual models
- **Digital Forensics** - Experimentation, Requirements, Ontology, Conc. Models, and Tools for Digital Forensics
- **Open Science for Software Engineering and Digital Forensics**

SOFT SKILLS

- **Collaboration:** group work for better results, discuss ideas, stay have empathy and be open to exchange knowledge and experience
- **Resilience:** adaptation in face of adversity, face the most difficult situations without breaking down
- **Communication:** listen carefully and communicate clearly
- **Flexibility:** adapt to changes over new methods, projects and technologies
- **Work under Pressure:** manage stress without losing focus
- **Results Orientation:** achieve results in the most effective way possible
- **Team Leadership:** motivate and engage groups, especially diversity ones
- **Assertiveness:** make decisions in an effective and fast pace
- **Proactiveness:** evaluate scenarios and find ways to resolve issues that impede results or disrupt productivity

SERVICE

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| | Journals |
| - Associate Editor | IET Software |
| - Edit. Board Member | J. Universal Computer Science |
| - Edit. Board Member | J. Soft. Eng. Research and Development |
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| - Reviewer | IEEE Trans. on Soft. Eng. |
| - Reviewer | Comp. Science Review |
| - Reviewer | IET Software |
| - Reviewer | J. Universal Computer Science |
| - Reviewer | ACM Computing Surveys |
| - Reviewer | J. of Systems and Software |
| - Reviewer | Inf. Soft. Technology |
| - Reviewer | Emp. Soft. Engineering |
| - Reviewer | J. Soft. Eng. Research and Development |
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| - Reviewer | Forensic Science International - Digital Investigation |
| - Reviewer | Forensic Science Review |
| | Conference Chair |
| - PC Chair | Ibero-American Conference on Software Engineering (CibSE 2024) |
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| - Open Science Chair | Ibero-American Conference on Software Engineering (CibSE 2023) |
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| - Open Science Chair | Brazilian Conference on Software Engineering (CBSOFT 2023, 2022) |
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| - General Chair | Workshop on Open Science Practices for Software Engineering (OpenSciSE 2022, 2021) |
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| - General Chair | Regional School of Software Engineering (ERES 2021, 2020) |
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| - General Chair | Brazilian Conference on Software (2016) |
| | International Conferences |
| - Artifact Evaluator | ICSE (2024) |
| - TPC Member | OpenSciSE (2023) |
| - TPC Member | OpenSym (2022) |
| - TPC Member | ACM SPLC (2023, 2022, 2021, 2020) |
| - TPC Member | PROFES (2023, 2022, 2021, 2020, 2019, 2018) |
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| - TPC Member | VaMoS (2023, 2022, 2021, 2020, 2019, 2018) |
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| - TPC Member | IEEE IRI (2020, 2019, 2018) |
| - TPC Member | ICEIS (2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014) |
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| - TPC Member | SEKE (2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015, 2014, 2013, 2012) |
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| - TPC Member | FIE (2020, 2019, 2018, 2017, 2016, 2015) |
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| - TPC Member | SLISW (2018, 2017, 2016, 2015, 2014, 2013) |
| | Brazilian Conferences |
| - TPC Member | SBSI (2023, 2022, 2021, 2020, 2019) |
| - TPC Member | SBES - Education Track (2023, 2022, 2021, 2020, 2019, 2018, 2017) |
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| - TPC Member | SBES - Research Track (2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016) |
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| - TPC Member | SBES - Innovative Ideas Track (2023, 2022, 2021, 2020) |
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| - TPC Member | SBCARS (2023, 2021, 2020, 2019, 2018, 2017, 2016, 2015) |
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| - TPC Member | SBQS - Research Track (2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015) |
| | |
| - TPC Member | SBQS - Education and Industry Experience Track (2023, 2022, 2021, 2020, 2019) |

LAST JOURNAL PUBLICATIONS

- 2023** Allian, Ana P.; Silva, L. F.; Oliveira Jr, E.; Nakagawa, E. Y. **VMTools-RA: a Reference Architecture for Software Variability Tools**. *Journal of Universal Computer Science*. (to appear in sept.)
- 2022** Falvo Jr, V.; Marcolino, A. S.; Duarte Filho, Nemésio; Oliveira Jr, E.; Barbosa, E. F. **Development and Evaluation of a Software Product Line for M-Learning Applications**. *Journal of Universal Computer Science*. DOI: <http://dx.doi.org/10.3897/jucs.90663>
- 2022** Garcia, L.A.; Oliveira Jr, E.; Morandini, M.; Urbanowski, S. **Tailoring the Scrum Framework for Software Development: Literature Mapping and Feature-based Support**. *Information and Software Technology - Elsevier*. DOI: <https://doi.org/10.1016/j.infsof.2021.106814>
- 2022** Oliveira Jr, E.; Silva, T.J.; Zorzo, A.F.; Neu, C.V. **Digital Forensics Experimentation: Analysis and Recommendations**. *Forensic Science Review*, v. 34, p. 21-41.
- 2021** Morandini, M.; Coleti, T.A.; Oliveira Jr, E.; Corrêa, P.L.P. **Considerations about the efficiency and sufficiency of the utilization of the Scrum methodology: A survey for analyzing results for development teams**. *Computer Science Review*, v. 39, p. 100314. DOI: <http://dx.doi.org/10.1016/j.cosrev.2020.100314>
- 2021** Oliveira Jr, E.; Zorzo, A.; Neu, C.V. **Experimentation of digital multimedia forensics: State of the art and research gaps**. *WIREs Forensic Science*, p. e1406. DOI: <http://dx.doi.org/10.1002/wfs2.1405>
- 2020** Allian, A. P.; Oliveira Jr, E.; Capilla, R.; Nakagawa, E. Y. **Have Variability Tools Fulfilled the Needs of Software Industry?**. *Journal of Universal Computer Science*, v. 26, p. 1282–1311. DOI: <https://doi.org/10.3897/jucs.2020.067>
- 2020** Petry, K.L.; Oliveira Jr, E.; Zorzo, A. **Model-based testing of software product lines: Mapping study and research roadmap**. *Journal of Systems and Software*, v. 167, p. 110608. DOI: <http://dx.doi.org/10.1016/j.jss.2020.110608>
- 2020** Oliveira Jr, E.; Zorzo, A.; Neu, C.V. **Towards a conceptual model for promoting digital forensics experiments**. *Forensic Science International: Digital Investigation*, v. 35, p. 301014. DOI: <http://dx.doi.org/10.1016/j.fsidi.2020.301014>
- 2019** Nogueira Teixeira, E.; Aleixo, F.; Amâncio, F.D.S.; Oliveira Jr, E.; Kulesza, U.; Werner, C. **Software process line as an approach to support software process reuse: A systematic literature review**. *Information and Software Technology*, v. 116, p. 106175. DOI: <http://dx.doi.org/10.1016/j.infsof.2019.08.007>
- 2018** Pazin, M.G.; Allian, A.P.; Oliveira Jr, E. **Empirical study on software process variability modelling with SMartySPEM and vSPEM**. *IET Software*, v. 12, p. 536-546, 2018. DOI: <http://dx.doi.org/10.1049/iet-sen.2017.0061>

LAST PROCEEDINGS PUBLICATIONS

- 2023** Ferrari, G. N.; Nepomuceno, Thais; Santana, C. H.; Luz, C. D.; Leal, G. C. L.; Amaral, ALINE M. M.; Balancieri, R.; Oliveira Jr, E. **Advanced Undergraduate Computing Students' Perception of Software Quality Teaching: a Survey in the Brazilian Paraná State**. In: *Proceedings of the Ibero-American Conference on Software Engineering*. URL: <https://so1.sbc.org.br/index.php/cibse/article/view/24700>.
- 2023** Bettin, G.; Herculan, J. B.; Melo, A.; Andrade, L. C.; Oliveira Jr, E. **Efficacy, Efficiency and Effectiveness of SMarty-based Software Product Line Inspection Techniques: a Controlled Quasi-Experiment**. In: *Proceedings of the 17th International Working Conference on Variability Modelling of Software-Intensive Systems*. DOI: <https://doi.org/10.1145/3571788.3571792>.
- 2022** FELIZARDO, K. R.; CHAVEZ, C. V. F. G.; PEREIRA, ROBERTO; OLIVEIRA JR, EDSON. **Surveying the Audience Effect in Open Peer Review of a Software Engineering Workshop**. In: *Proceedings of the Brazilian Symposium on Software Engineering*. DOI: <https://doi.org/10.1145/3555228.3555271>.
- 2022** Oliveira Jr, Edson; CORDEIRO, A. F. R.; NASCIMENTO, D. **Surveying the Open Science knowledge in a southern Brazilian university**. In: *Proceedings of the International Symposium on Open Collaboration*. DOI: <https://doi.org/10.1145/3555051.3555064>.
- 2022** LUZ, C. D.; Oliveira Jr, E.; STEINMACHER, I. **How Experimentation in Software Engineering has been taught? Survey and Research Agenda**. In: *Proceedings of the International Conference on Evaluation and Assessment in Software Engineering*, p. 299–304. DOI: <http://dx.doi.org/10.1145/3530019.3535306>.
- 2022** CORDEIRO, A. F. R.; Oliveira Jr, EDSON; CAPRETZ, L. F. **Towards an Open Science-Based Framework for Software Engineering Controlled (Quasi-)Experiments**. In: *Proceedings of the XVI Brazilian e-Science Workshop*. DOI: <http://dx.doi.org/10.5753/bresci.2022.222815>.
- 2022** SILVA, T. J.; Oliveira Jr, E. **An Ontology for Supporting Digital Forensics Controlled Experiments: Early Stages of Development**. In: *Proceedings of the XVI Brazilian e-Science Workshop*. DOI: <http://dx.doi.org/10.5753/bresci.2022.222813>.
- 2021** Oliveira Jr, E.; Chavez, C. v. F. G.; Cordeiro, A.; Feitosa, D. **How do Brazilian Software Engineering Researchers Perceive and Practice Open Science?**. In: *Proceedings of the I Workshop on Open Science Practices for Software Engineering*, p. 28–33 DOI: <http://dx.doi.org/10.5753/opensciense.2021.17142>
- 2021** Cordeiro, A. F. R. ; Oliveira Jr, E. **Open Science Practices for Software Engineering Controlled Experiments and Quasi-Experiments**. In: *Proceedings of the I Workshop on Open Science Practices for Software Engineering*, p. 19–21 DOI: <http://dx.doi.org/10.5753/opensciense.2021.17140>
- 2021** Furtado, V.; Oliveira Jr, E.; Kalinowski, M. **Guidelines for Promoting Software Product Line Experiments**. In: *Proceedings of the Brazilian Symposium on Software Components, Architectures, and Reuse*, ACM, p. 31–40 DOI: <http://dx.doi.org/10.1145/3483899.3483909>
- 2021** Freire, W. et al. **On the configuration of multi-objective evolutionary algorithms for PLA design optimization**. In: *Proceedings of the Brazilian Symposium on Software Components, Architectures, and Reuse*, ACM, p. 11–20 DOI: <http://dx.doi.org/10.1145/3483899.3483905>

LAST PROCEEDINGS PUBLICATIONS

- 2021** Silva, L.F.; Oliveira Jr, E. **SMartyModeling: an instance of VMTools-RA for Engineering UML-based Software Product Lines.** In: *Proceedings of the Brazilian Symposium on Software Quality*, ACM, p. 1–10 DOI: <https://doi.org/10.1145/3493244.3493274>
- 2021** Oliveira Jr, E.; Furtado, V.; Vignando, H.; Luz, C.; Cordeiro, A.; Steinmacher, I.; Zorzo, A. **Towards Improving Experimentation in Software Engineering.** In: *Proceedings of the Brazilian Symposium on Software Engineering*, ACM, p. 355–340 DOI: <http://dx.doi.org/10.1145/3474624.3477073>
- 2021** Bettin, G.; Oliveira Jr, E. **SMartyPerspective: a perspective-based inspection technique for software product lines.** In: *Proceedings of the Brazilian Symposium on Software Engineering*, ACM, p. 90–94 DOI: <http://dx.doi.org/10.1145/3474624.3474626>
- 2021** Silva, L.F.; Oliveira Jr, E. **SMartyModeling: an Environment for Engineering UML-based Software Product Lines.** In: *Proceedings of the International Working Conference on Variability Modelling of Software-Intensive Systems*, ACM, p. 1–5. DOI: <https://doi.org/10.1145/3442391.3442397>
- 2021** Choma Neto, J.; Oliveira Jr, E.; Souza, S.R.S.; Bento, L.H.T.C. **Are we teaching UML according to what IT companies need? A survey on the São Carlos-SP region.** In: *Proceedings of the Brazilian Symposium on Computer Education*, p. 1–10. DOI: <https://doi.org/10.5753/educomp.2021.14469>
- 2021** Nepomuceno, T.S.; Oliveira Jr, E. **Software Product Line Traceability and Product Configuration in Class and Sequence Diagrams: an Empirical Study.** In: *International Conference on Enterprise Information Systems*, p. 197–204 DOI: <https://doi.org/10.5220/0010411001970204>
- 2021** Petry, K.L.; Oliveira Jr, E.; Costa, L.T.; Zanin, A.; Zorzo, A.F. **SMartyTesting: a Model-Based Testing Approach for Deriving Software Product Line Test Sequences.** In: *International Conference on Enterprise Information Systems*, p. 165–172. DOI: <https://doi.org/10.5220/0010373601650172>
- 2020** Garcia, L.; Oliveira Jr, E.; Leal, G.C.L.; Morandini, M.; Urbanowski, S. **Adaptations of Scrum roles in software projects: Survey and representation tentative with feature models.** In: *Proceedings of the Brazilian Symposium on Software Engineering*, ACM, p. 47–51. DOI: <https://doi.org/10.1145/3422392.3422403>
- 2020** Oliveira Jr, E.; Leal, G.C.L.; Valente, M.T.; Morandini, M.; Prikladnicki, R.; Pompermaier, L.; Chanin, R.; Caldeira, C.; Machado, L.; Souza, C. **Surveying the impacts of COVID-19 on the perceived productivity of Brazilian software developers.** In: *Proceedings of the Brazilian Symposium on Software Engineering*, ACM, p. 586–595. DOI: <https://doi.org/10.1145/3422392.3422444>
- 2020** Nepomuceno, T.S.; Oliveira Jr, E.; Penteado, R.R.M.; Silva, M.A.G.; Zorzo, A. **Empirical Study on Product Configuration and Traceability in UML-based Product-Lines.** In: *Proceedings of the Ibero-American Conference on Software Engineering*, p. 1–14.
- 2020** Silva, L.F.; Oliveira Jr, E. **Evaluating usefulness, ease of use and usability of an UML-based Software Product Line Tool.** In: *Proceedings of the Brazilian Symposium on Software Engineering*, p. 798–807. DOI: <https://doi.org/10.1145/3422392.3422402>
- 2020** Silva, L.F.; Oliveira Jr, E.; Zorzo, A.F. **Feasibility Analysis of SMartyModeling for Modeling UML-based Software Product Lines.** In: *Proceedings of the International Conference on Enterprise Information Systems*, ScitePress, p. 442–449. DOI: <http://dx.doi.org/10.5220/0009793404420449>

LAST PROCEEDINGS PUBLICATIONS

- 2020** Garcia, L.; Oliveira Jr, E.; Leal, G.C.L.; Morandini, M. **On the Adaptations of the Scrum Framework Software Development Events: Literature and Practitioners Analysis using Feature Models.** In: *Proceedings of the International Conference on Enterprise Information Systems*, ScitePress, p. 416–423. DOI: <http://dx.doi.org/10.5220/0009578904160423>
- 2020** Vignando, H.; Furtado, V.R.; Teixeira, L.; Oliveira Jr, E. **OntoExper-SPL: An Ontology for Software Product Line Experiments.** In: *Proceedings of the International Conference on Enterprise Information Systems*, ScitePress, p. 401–408. DOI: <http://dx.doi.org/10.5220/0009575404010408>
- 2020** Nepomuceno, T.S.; Oliveira Jr, E.; Geraldi, R.T.; Malucelli, A.; Reinehr, S.; Silva, M.A.G. **Software Product Line Configuration and Traceability: An Empirical Study on SMarty Class and Component Diagrams.** In: *Proceedings of the Annual Computers, Software, and Applications Conference*, IEEE, p. 979–984. DOI: <https://doi.org/10.1109/COMPSAC48688.2020.0-144>

JOURNAL ARTICLES TO APPEAR

Poltronieri, I.; Zorzo, A. F.; Bernardino, M.; Pedroso, A.; Oliveira Jr, E. **Usa-DSL: a Process for Usability Evaluation of Domain-Specific Languages.** *Journal of Universal Computer Science* - <https://www.scopus.com/sourceid/145537#tabs=1>

SUBMITTED JOURNAL ARTICLES

Geraldi, R. T.; Reinehr, S.; Oliveira Jr, E.; Malucelli, A. **Towards a proactive variability modeling process for cyber-physical systems supported by modern product line engineering.** *Software and Systems Modeling*

Menolli, A.; Clementino Junior, J. M.; Oliveira Jr, E. **Why should companies use MDE-based development to improve organizational learning? A survey on Brazilian software development companies and a roadmap.** *Information and Software Technology*

Silva, T. J.; Oliveira Jr, E.; Zorzo, A. F. **A Systematic Literature Review and Recommendations for Ontology-based Support of Digital Forensics.** *Forensic Science International - Digital Investigation*

Silva, L. F.; Moreira, E. I.; Oliveira Jr, E.; Tenorio, N. **How Software Reference Architectures have been Evaluated? A Systematic Literature Review.** *Information and Software Technology*

Cordeiro, A. F.; Oliveira Jr, E. **Open Science Practices for Software Engineering: a Review.** *Empirical Software Engineering*

BOOK

- Feb/2023** Oliveira Jr, E. (editor) **UML-based Software Product Line Engineering with SMarty.** Springer. ISBN: 978-3-031-18555-7. URL: <https://link.springer.com/book/10.1007/978-3-031-18555-4>

DIVERSITY STATEMENT

I strongly recognize the rights of all individuals to mutual respect and acceptance of others without prejudice based on differences of any kind. I am a professional driven by the ability to lead and seek diversity in all institutions and to lead society to pluralism. I fully understand that being a professor, scientist or researcher does not mean just being successful in research. At the same time, one should be excellent in interactions with the community and the students, to lead the academic society, and in responsibilities to transform the community. I have been engaged in attract especially female and diverse students' attention to computer science, guiding and encouraging them from my undergraduate school, to apply to graduate school. At the State University of Maringá, I mentored xxx female students. I train them on building and characterizing on for studying and researching.

PROFESSIONAL REFERENCES

Igor Steinmacher, Ph.D.: Northern Arizona University (NAU), USA.

- E-mail: igor.steinmacher@nau.edu
- ORCID: <https://orcid.org/0000-0002-0612-5790>
- DBLP: <https://dblp.org/pid/70/3474.html>

José C. Maldonado, Ph.D.: University of São Paulo (USP), Brazil.

- E-mail: jcmaldon@icmc.usp.br
- ORCID: <https://orcid.org/0000-0002-3779-7143>
- DBLP: <https://dblp.org/pid/28/2292.html>

Avelino F. Zorzo, Ph.D.: Pontifical Catholic University of Rio Grande do Sul (PUCRS), Brazil.

- E-mail: avelino.zorzo@pucrs.br
- ORCID: <https://orcid.org/0000-0002-0790-6759>
- DBLP: <https://dblp.org/pid/z/AvelinoFZorzo.html>

Tayana U. Conte, Ph.D.: Federal University of Amazonas (UFAM), Brazil.

- E-mail: tayana@icomp.ufam.edu.br
- ORCID: <https://orcid.org/0000-0001-6436-3773>
- DBLP: <https://dblp.org/pid/48/5.html>

Andreia Malucelli, Ph.D.: Pontifical Catholic University of Paraná (PUC-PR), Brazil.

- E-mail: andreia.malucelli@pucpr.br
- ORCID: <https://orcid.org/0000-0002-0929-1874>
- DBLP: <https://dblp.org/pid/82/191.html>