

André Luis Schwerz, Ph.D.

✉ andreluis@utfpr.edu.br
in andre-luis-schwerz
🌐 <http://www.andre.pro.br/>



Employment History

- 2021 – **Full Professor.** Federal University of Technology - Paraná.
- 2016 – 2021 **Associate Professor.** Departament of Computing. Federal University of Technology - Paraná.
- 2007 – 2016 **Lecture.** Departament of Computing. Federal University of Technology - Paraná.

Education

- 2011 – 2016 **Ph.D. Computer Science, University of São Paulo.** Advisor: Prof. Dr. João E. Ferreira
Thesis title: *Robust and Reliable Process-Aware Information Systems.*
- 2004 – 2006 **M.Sc. Computer Science, State University of Maringá.** Prof. Dr. Sérgio R. P. da Silva
Thesis title: *Proposal for a Task Model in a Usability Monitoring Environment.*
- 2000 – 2003 **B.Sc. Computer Science, Federal University of Mato Grosso do Sul.**

Research Publications

Journal Articles

- 1 A. Y. Kajihara, G. A. de Queiroz, M. G. Caxambú, L. E. S. Oliveira, D. Bertolini, and A. L. Schwerz, “A database for automatic identification of herbarium specimens in piperaceae family,” *Multimedia Tools and Applications*, 2025. [DOI: 10.1007/s11042-025-20883-2](#).
- 2 R. C. Schwerz, A. da Silva Fontes, and A. L. Schwerz, “Rolling with slipping and transition to pure rolling on an inclined plane,” *The Physics Teacher*, vol. 62, no. 2, pp. 132–134, 2024. [DOI: 10.1119/5.0088212](#).
- 3 A. L. Schwerz, R. Liberato, C. Pu, and J. E. Ferreira, “Robust and reliable process-aware information systems,” *IEEE Transactions on Services Computing*, vol. 14, no. 3, pp. 820–833, 2021. [DOI: 10.1109/TSC.2018.2824810](#).
- 4 I. F. Steinmacher, I. S. Wiese, A. L. Schwerz, R. L. Roberto, J. E. Ferreira, and M. A. Gerosa, “Historical analysis of message contents to recommend issues to open source software contributors,” *Revista Eletrônica de Sistemas de Informação*, vol. 13, no. 2, 2014. [DOI: 10.5329/RESI](#).

Conference Proceedings

- 1 R. G. A. Sakashita, D. Bertolini, and A. L. Schwerz, “Predição do conceito enade dos cursos de computação no brasil,” in *Anais do XXXIV Simpósio Brasileiro de Informática na Educação (SBIE'23)*, Passo Fundo, RS, Brasil, 2023, pp. 1305–1316. [DOI: 10.5753/sbie.2023.234715](#).
- 2 A. Y. Kajihara, D. Bertolini, and A. L. Schwerz, “Identification of herbarium specimens: A case study with Piperaceae Giseke family,” in *Proceedings of the 29th International Conference on Systems, Signals and Image Processing (IWSSIP'22)*, Sofia, Bulgaria, 2022, pp. 1–4. [DOI: 10.1109/IWSSIP55020.2022.9854444](#).
- 3 A. da Silva Vieira, D. Bertolini, and A. L. Schwerz, “Análise do desempenho no enade dos concluintes de computação usando técnica de agrupamento,” in *Anais do XXXIII Simpósio Brasileiro de Informática na Educação (SBIE'22)*, Manaus, AM, Brazil, 2022, pp. 834–845. [DOI: 10.5753/sbie.2022.224710](#).

- 4 L. O. O. Capelari and A. L. Schwerz, “O perfil socioeconômico dos concluintes de computação do sul do Brasil,” in *Anais do XII Computer on the Beach (COTB’21)*, vol. 12, 2021, pp. 133–140.  DOI: 10.14210/cotb.v12.p133-140.
- 5 B. Padilha, P. L. Takecian, D. L. Soares, A. L. Schwerz, L. T. Kamaura, and J. E. Ferreira, “Metricam: Fast and reliable social distancing analysis in online security cameras,” in *Proceedings of the International Conference on Computational Science and Computational Intelligence (CSCI’21)*, Las Vegas, NV, USA, 2021, pp. 1567–1573.  DOI: 10.1109/CSCI54926.2021.00305.
- 6 D. Carlo, D. Andrade, R. Liberato, and A. L. Schwerz, “Um estudo exploratório das ferramentas de código aberto para a replicação de dados no postgresql,” in *Anais da XV Escola Regional de Banco de Dados (ERBD’19)*, Chapecó, SC, Brazil, 2019, pp. 11–20.  DOI: 10.5753/erbd.2019.8474.
- 7 R. M. Meloca, R. Ré, and A. L. Schwerz, “An analysis of frameworks for microservices,” in *Proceedings of XLIV Latin American Computer Conference (CLEI’18)*, São Paulo, SP, Brazil, 2018, pp. 542–551.  DOI: 10.1109/CLEI.2018.00071.
- 8 B. Padilha, R. L. Roberto, A. L. Schwerz, C. Pu, and J. E. Ferreira, “WED-SQL: An intermediate declarative language for PAIS execution,” in *Proceedings of the 25th International Conference on Web Services (ICWS’18)*, Seattle, WA, USA, 2018, pp. 407–421.  DOI: 10.1007/978-3-319-94289-6_26.
- 9 B. Padilha, A. L. Schwerz, and R. L. Roberto, “WED-SQL: A relational framework for design and implementation of process-aware information systems,” in *Proceedings of the 37th International Conference on Distributed Computing Systems Workshops (ICDCSW’17)*, Atlanta, GA, USA, 2017, pp. 364–369.  DOI: 10.1109/ICDCSW.2017.46.
- 10 R. Liberato, A. L. Schwerz, C. Pu, and J. E. Ferreira, “Abordagem transacional para padrões de controle de fluxo de processos científicos e de negócios,” in *Anais do XXX Simpósio Brasileiro de Banco de Dados (SBB’15)*, Petropolis, RJ, Brazil, 2015.
- 11 R. Liberato, A. L. Schwerz, O. K. Takai, and J. E. Ferreira, “Gerenciador de dados compartilhados entre processos de negócio: Data-control process para wed-tool,” in *Anais do Simpósio Brasileiro de Sistemas de Informação (SBSI’14)*, vol. 2, Londrina, PR, Brazil, 2014.
- 12 A. L. Schwerz, R. L. Roberto, I. S. Wiese, I. Steinmacher, M. A. Gerosa, and J. E. Ferreira, “Predizendo a participação de desenvolvedores em discussões em projetos de software livre,” in *Workshop Internacional de Software Livre (WSL’13)*, 2013.
- 13 A. L. Schwerz, R. Liberato, I. S. Wiese, I. Steinmacher, M. A. Gerosa, and J. E. Ferreira, “Prediction of developer participation in issues of open source projects,” in *Proceeding of the Brazilian Symposium on Collaborative Systems (SBSC’12)*, 2012, pp. 109–114.  DOI: 10.1109/SBSC.2012.27.
- 14 G. C. Silva, R. Ré, A. Kawamoto, and A. Schwerz, “Uma experiência na aplicação de práticas de apoio no ensino-aprendizado de algoritmos,” in *Anais do XVII Workshop de Informática na Escola (WIE’11)*, 2011, pp. 1378–1381.  DOI: 10.5753/wie.2011.21761.
- 15 A. L. Schwerz, M. Morandini, and S. R. da Silva, “A task model proposal for web sites usability evaluation for the ergomonitor environment,” in *Proceeding of the 12th International Conference Human-Computer Interaction (HCI’07)*, Beijing, China, 2007, pp. 1188–1197.  DOI: 10.1007/978-3-540-73105-4_129.

Skills

Languages	 Reading, writing and speaking competencies for English and Portuguese.
Coding	 Python, SQL, Ruby, Java, C, PL/SQL and Delphi/Object Pascal
Databases	 PostgreSQL, MySQL, MariaDB, and MongoDB
Misc.	 Academic Research, Machine Learning, Data Science.