

Flavio S. Fogliatto

Industrial & Systems Engineering
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TABLE OF CONTENTS

1.	EDUCATION	2
1.1	Fields of Interest	2
1.2	Academic metrics.....	2
2.	ACADEMIC POSITIONS	2
2.1	Visiting Positions	3
2.2	Editorial Boards.....	3
2.3	Professional Societies.....	3
3.	PROFESSIONAL ACHIEVEMENTS	4
3.1	Awards and Honors.....	4
3.2	Milestones.....	5
4.	GRANTS AND SCHOLARSHIPS	5
4.1	Individual Research Grants and Scholarships	5
4.2	Team Research Grants	6
5.	PUBLICATIONS	8
5.1	Books	8
5.2	Book Chapters	9
5.3	Refereed Journal Papers	9
5.4	Refereed Conferences.....	22
6.	PRESENTATIONS	29
6.1	Invited Talks	29
7.	TEACHING AND TRAINING.....	30
7.1	Undergraduate and Graduate Teaching	30
7.2	Executive Diploma Courses and Seminars	31
7.3	Training of Highly Qualified Personnel.....	31
7.3	M.Sc. and Ph.D. examination committees	35
8.	SERVICE	37
8.1	University Service.....	37
8.2	Governmental Services	39
8.3	Scientific Associations	39
8.4	Academic Conference Services	40
8.5	Scholarly Journals.....	42
8.6	Hiring, Promotion, and Tenure	42

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1. EDUCATION

- | | |
|-------------|---|
| 1994 – 1997 | Ph.D. in Industrial & Systems Engineering, Rutgers – The State University of New Jersey, USA – Title: The Hierarchical Multiresponse Optimization Method. Supervised by Prof. Susan L. Albin |
| 1992 – 1994 | M.Sc. in Industrial Engineering, Universidade Federal do Rio Grande do Sul (UFRGS), Brazil – Title: Design of Experiments Applied to the Process Industry. Supervised by Prof. Jose L. Duarte Ribeiro |
| 1984 – 1989 | B.Sc. in Chemical Engineering, Pontifícia Universidade Católica do Rio Grande do Sul (PUCRS), Brazil |

1.1 Fields of Interest

Quality Engineering
Predictive Modeling and Machine Learning
Healthcare Operations Management
Resilient Lean Systems

1.2 Academic metrics

Google Scholar – h-index: **52**, i10-index: **139**, 304 documents, Total citations: **12,692** (last update: August 2026)

Scopus – h-index: **38**, 167 documents, Total citations: **6,390** (last update: August 2026)

SciVal – Field-Weighted Citation Impact: **1.947** (last update: August 2026)

2. ACADEMIC POSITIONS

H. Milton Stewart School of Industrial and Systems Engineering, Georgia Institute of Technology, USA

2026-date Lecturer

Industrial & Transportation Engineering Dept., Universidade Federal do Rio Grande do Sul (UFRGS), Brazil

2018-2025 Full Professor
2010-2018 Associate Professor
2002-2010 Assistant Professor

Doctoral Program in Industrial Engineering, UFRGS, Brazil

2025-date Adjunct Professor
1998-2002 Post-Doctoral Fellow, School of Engineering

2.1 Visiting Positions

- *Short appointments*

2001 École des Mines de Nantes, Nantes, France, 02/01/01 – 03/30/01. Hosted by Prof. Philippe Castagliola

- *Sabbatical periods*

2022-2023 Haskayne School of Business, University of Calgary, Canada, 12/01/22 – 11/16/23. Hosted by Prof. Giovani da Silveira.

2005-2006 Center for Studies and Research in Computer Science and Communication (CEDRIC), Conservatoire National des Arts et Métiers, Paris, France, 07/15/05 – 08/15/06. Hosted by Prof. Gilbert Saporta.

2.2 Editorial Boards

2025-date Associate Editor, International Journal of Lean Six Sigma
2022-2025 Associate Editor, International Journal of Operations & Production Management
2021-date Editorial Review Board, International Journal of Operations & Production Management
2021-date Advisory Editorial Board, International Journal of Production Economics
2012-date Editorial Board, Sistemas & Gestao (Brazil)
2010-date Scientific Committee, Revista Gestao Industrial (Brazil)
2010-date Editorial Board, Cadernos IME - Statistics (Brazil)
2008-date Editorial Board, Gestão & Produção (Brazil)
2008-2014 Associate Editor, Production (Brazil)

2.3 Professional Societies

Production and Operations Management Society (POMS)

Institute for Operations Research and the Management Sciences (INFORMS)

European Operations Management Association (EurOMA)

Brazilian Association of Graduate and Research Program in Industrial Engineering (ANPEPRO)

3. PROFESSIONAL ACHIEVEMENTS

3.1 Awards and Honors

- | | |
|------|--|
| 2024 | Ranked among the top 2% researchers worldwide in his sub-field of expertise in the "Updated science-wide author databases of standardized citation indicators" by Stanford University: DOI: 10.17632/btchxktzyw.62%.
Best Doctoral Paper Award, XI Brazilian Meeting on Research and Graduate Studies in Industrial Engineering (2024 ANPEPRO Conference), Rio de Janeiro, Brazil (w/ Bruno Matos Porto). |
| 2022 | 2022 Research in Engineering Lifetime Achievement Award, Rio Grande do Sul Science Foundation, Rio Grande do Sul State, Brazil. |
| 2022 | Outstanding Reviewer in the 2022 Emerald Literati Awards, selected by the editorial team of International Journal of Operations & Production Management. |
| 2020 | Honorable Mention (shortlisted for best paper), 2020 ANPEPRO Conference, online, Brazil (w/ Rafael Calegari). |
| 2018 | Best Conference Presentation Award (w/ Fernanda Peres), ICFPT 2018 - Int Conference on Food Processing and Technology, London, UK.
Outstanding Contribution in Reviewing, awarded by the editors of Computers & Industrial Engineering. |
| 2014 | Honorable Mention (second best paper), 2014 International Symposium on Supply Chain Management, Edmonton, Canada (with G.J.C. da Silveira and M.C.N. Gramani). |
| 2012 | Best paper, Sensometrics Conference, Rennes, France (w/ Flavia Pinto). |
| 2010 | Best Student Paper, Sensometrics Conference, Rotterdam, Holand (w/ Karina Rossini). EU\$ 1,000. |
| 2008 | Best Conference Paper Award, The IEEE International Conference on Industrial Engineering and Engineering Management, Singapore (w/ J.C. Fiorioli), S\$ 5,000. |
| 2006 | Patron of the 2006/II Graduate Class, Industrial Engineering, Universidade Federal do Rio Grande do Sul, Brazil. |
| 2006 | Honored Professor, Bachelor's in Industrial Engineering, 2006/I Graduate Class, Universidade Federal do Rio Grande do Sul, Brazil. |
| 2005 | Best Paper in Operations Research. Brazilian National Conference in Industrial Engineering, Porto Alegre, Brazil. |
| 2005 | Honored Professor, Bachelor's in Industrial Engineering, 2005/II Graduate Class, Universidade Federal do Rio Grande do Sul, Brazil. |

- 2005 Patron of the 2005/I Graduate Class, Industrial Engineering, Universidade Federal do Rio Grande do Sul, Brazil (UFRGS' first IE graduate class).
- 2003 IIE Transactions Best Paper Award, Institute of Industrial Engineers, Portland, USA.
- 2002 First place in the public competition for the position of Adjunct Professor, Industrial Engineering Department, Universidade Federal do Rio Grande do Sul, Brazil.
- 2001 Academic Achievement Award, CNT (Brazilian National Transportation Council).
- 1999 First place in the public competition for the position of Adjunct Professor, Informatics and Statistics Department, Universidade Federal de Santa Catarina, Brazil.

3.2 Milestones

- 1999 Member of the committee that established the first Industrial Engineering (IE) major program in Brazil at UFRGS.
- 2000 Member of the committee that established the Doctoral Program in Industrial Engineering at UFRGS.
- 2016 Director of the top-ranked Graduate Program in Industrial Engineering in Brazil (as rated by the Brazilian Ministry of Education), serving two terms, with the program achieving its highest ranking during my second term. Link: www.producao.ufrgs.br
- 2005 Head of the top-ranked Undergraduate Program in Industrial Engineering in Brazil (as rated by the Brazilian Ministry of Education), serving two terms.

4. GRANTS AND SCHOLARSHIPS

4.1 Individual Research Grants and Scholarships

- 2022-2023 *Post-Graduate Sabbatical Grant*, MCTI/CNPq – Ministry of Science, Technology, and Innovation (Brazil). Application: 400737/2022-1. Institution: Haskayne School of Business, University of Calgary, Calgary, Canada. Host: Prof. Giovanni da Silveira. Amount: CA\$ 46,273.00 (Applicant retains university salary during sabbatical).
- 2022-2027 *Individual Research Grant*, MCTI/CNPq – Ministry of Science, Technology, and Innovation (Brazil). Application #308261/2021-6. Project: "Data Science and Digital Technologies in Health Services Operations Management", BR\$ 168,000 / US\$ 50,000 (Note: Applicant is repositioned to the agency's highest rank – PQ1A).
- 2015-2022 *Individual Research Grant*, MCTI/CNPq – Ministry of Science, Technology, and Innovation (Brazil). Application #303509/2015-5. Project: "Variable selection methods in process control and optimization", BR\$ 210,000 / US\$ 62,000 (Applicant is repositioned to the agency's top category – PQ1B).
- 2011-2015 *Individual Research Grant*, MCTI/CNPq – Ministry of Science, Technology, and Innovation (Brazil). Application #303059/2011-7. Project: "Variable selection applications in Quality Engineering", BR\$ 120,000 / US\$ 72,000 (Applicant is repositioned to the agency's top

category – PQ1C).

- 2008-2011 *Individual Research Grant*, MCTI/CNPq – Ministry of Science, Technology, and Innovation (Brazil). Application #301380/2008-2. Project: "Multivariate statistical control of non-linear processes", BR\$ 110,400 / US\$ 60,000 (Applicant remains in the agency's top category – PQ1D).
- 2005-2008 *Individual Research Grant*, MCTI/CNPq – Ministry of Science, Technology, and Innovation (Brazil). Application #301433/2005-4. Project: "Multivariate statistical control of batch processes described by linear and non-linearly correlated variables", BR\$ 110,400 / US\$ 46,000 (Applicant is repositioned to the agency's top category – PQ1D).
- 2005-2006 *Post-Graduate Sabbatical Grant*, CAPES – Brazilian Ministry of Education. Application #BEX 0293/05-9. Institution: Conservatoire National des Arts et Metiers (CNAM), Paris, France. Host: Prof. Gilbert Saporta. €\$ 28,300 + travel expenses (Applicant retains university salary during sabbatical).
- 2001-2005 *Individual Research Grant*, MCTI/CNPq – Ministry of Science, Technology, and Innovation (Brazil). Application #301433/2001-1. PROFIX - Special Program to Encourage Doctors to Stay in the Country. BR\$ 135,600 / US\$ 58,000 (Applicant is positioned in the agency's entry category – PQ2).
- 1999-2000 *Research Fellowship*, CAPES Ministry of Education, Brazil (subsistence). BR\$ 30,000 / US\$ 30,000
- 1994-1997 *Ph.D. Scholarship*, CAPES Ministry of Education, Brazil (tuition, travel, subsistence). BR\$ 60,000 / US\$ 60,000
- 1992-1994 *M.Sc. Scholarship*, CAPES Ministry of Education, Brazil (tuition, subsistence). BR\$ 16,800 / US\$ 16,800

4.2 Team Research Grants

- 2024-2026 Research Grant, Call for Proposals 22/2024 - Programa Conhecimento Brasil - Support for Network Projects with Brazilian Researchers Abroad, MCTI/CNPq – Ministry of Science, Technology, and Innovation (Brazil). Project (translated): "Developing the Resilience of Critical Infrastructures to Climate Change: Learning Opportunities Involving Brazil, Australia, and the United States". Amount: BR\$ 177,000.00 / US\$ 35,000.00 (Applicant is Co-Principal Investigator)
- 2024-2026 Research Grant, Call for Proposals 09/2023 – Research Productivity, FAPERGS – Rio Grande do Sul Science Foundation (Brazil). Project (translated): "Improvement of resilience and efficiency in health services", BR\$ 48,000.00 / US\$ 9,600.00 (Applicant is Co-Principal Investigator).
- 2024-2026 Research Grant, Call for Proposals 25/2023 – Projects in cooperation with proven international collaborators, MCTI/CNPq – Ministry of Science, Technology, and Innovation (Brazil). Project (translated): "Contributions to the assessment and improvement of resilience and efficiency in health services", BR\$ 326,587.19 / US\$ 65,317.40 (Applicant is Co-Principal Investigator).

- 2023-2025 *Research Grant, Call for Proposals 10/2023 – Universal, MCTI/CNPq – Ministry of Science, Technology, and Innovation (Brazil). Project (translated): "Operations management in healthcare: innovations for improvements in efficiency and resilience supported by digital technologies", BR\$ 137,000 / US\$ 27,400 (Applicant is Principal Investigator).*
- 2023 *Research Grant, Cooperation Agreement UFRGS/FEENG/Hospital Tacchini (Bento Gonçalves, RS). Project (translated): "Diagnosis and guidelines for improvements in the operations management of the surgical center at Tacchini Hospital", BR\$ 100,000 / US\$ 22,000 (Applicant was Co- Principal Investigator).*
- 2021 *Research Grant, Cooperation Agreement UFRGS/FEENG/Hospital Moinhos de Vento. Project (translated): "Analysis of the operations at the Moinhos de Vento Hospital's Surgical Center", BR\$ 70,000 / US\$ 18,000 (Applicant was Co-Principal Investigator).*
- 2020 *Research Grant, Call for Proposals 06/2018 – FAPERGS/CAPES. Project (translated): "Operations management in health care systems: innovative practices based on complexity theory". In cooperation with Macquarie University (Australia), BR\$ 99,265 / US\$ 19,500 (Ongoing – Applicant was Principal Investigator).*
- 2019 *Research Grant, Cooperation Agreement UFRGS/FEENG/SCI. Project (translated): "Customized prediction of attendance to soccer matches based on machine learning methods", BR\$ 106,382 / US\$ 27,000 (Applicant was Principal Investigator).*
- 2018 *Research Grant, Cooperation Agreement UFRGS/FEENG/Renner. Project (translated): "Development of quali-quantitative approach for sales forecast", BR\$ 148,000 / US\$ 41,000 (Applicant was Principal Investigator).*
- 2016-2017 *Research Grant, Cooperation Agreement UFRGS/FAURGS/HCPA. Project (translated): "Operations management of the surgical center of the Clinics Hospital of Porto Alegre (HCPA)", BR\$ 240,000 / US\$ 70,000 (Applicant was Principal Investigator).*
- 2013-2015 *Research Grant, Call for Proposals 014/2013 – Universal, MCTI/CNPq – Ministry of Science, Technology, and Innovation (Brazil). Project (translated): "Influence of the value chain on the relationship between manufacturing investments and competitiveness: a longitudinal analysis", BR\$ 40,000 / US\$ 18,400 (Applicant was Principal Investigator).*
- 2012 *Research Grant, Research and Development Notice 2012, Agreement #PA0031, UFRGS/School of Engineering Foundation/CPFL (Brazil). Project (translated): "Development of a decision support tool for investment planning", BR\$ 215,339 / US\$ 109,800 (Applicant was Co- Principal Investigator).*
- 2009-2015 *Research Grant, Agreement #046, UFRGS/School of Engineering Foundation/Ministry of Health. Project (translated): "Reference Center in Strategic Technologies and Inputs for Healthcare, BR\$ 1,474,257 / US\$ 740,800 (Applicant was Technical Coordinator).*
- 2008-2009 *Research Grant, Research and Development Notice 2008, Cooperation Agreement UFRGS/FEENG/RGE. Project (translated): "Data mining techniques for inspection planning with commercial losses due to energy fraud", BR\$ 205,000 / US\$ 112,000 (Applicant was Principal Investigator).*
- 2007 *Research Grant, Cooperation Agreement PUCRS/UFRGS/Ministry of Infrastructure. Sub-*

Project (translated): "Reliability study for the implementation of an autonomous vehicle to connect the Porto Alegre airport to the Trensurb subway station", BR\$ 207,164 / US\$ 107,300 (Applicant was one of the Technical Coordinators).

- 2003-2005 *Research Grant, Research and Development Notice 2003, Cooperation Agreement UFRGS/FAURGS/CEEE.* Project (translated): "Implementation of a demand forecasting system to support strategic decisions to expand electricity distribution systems", BR\$ 385,054 / US\$ 126,200 (Applicant was Principal Investigator).
- 2003-2004 *Research Grant, Cooperation Agreement UFRGS/School of Engineering Foundation /TBG/GASPETRO/SULGAS.* Project (translated): "Evaluation of regulatory measures on the natural gas market", BR\$ 1,343,200 / US\$ 440,393 (Applicant coordinated one of the project areas).
- 2003 *Research Grant, Research and Development Notice 2003, Cooperation Agreement UFRGS/FAURGS/RGE.* Project (translated): "Six Sigma methodology to improve the performance of suppliers", BR\$ 408,000 / US\$ 133,770 (Applicant coordinated two project areas).
- 2002-2005 *Research Grant, Research and Development Notice 2002/2003, Cooperation Agreement UFRGS/FEENG/RGE.* Project (translated): "Development of a standard working method for heavy-duty teams in electricity distribution networks", BR\$ 566,080 / US\$ 189,900 (Applicant was Principal Investigator).
- 2001-2002 *Research Grant, Cooperation Agreement UFRGS/School of Engineering Foundation /PETROBRAS.* Project (translated): "Methodology for assessing demand scenarios for natural gas", BR\$ 1,586,950 / US\$ 675,290 (Applicant coordinated one of the project areas).
- 2001 *Research Grant, Cooperation Agreement UFRGS/FAURGS/Government of the Municipality of Porto Alegre.* Project (translated): "Methodology for assessing the venal value of real estate in the city of Porto Alegre", BR\$ 129,600 / US\$ 55,148 (Applicant was one of the Technical Coordinators).

5. PUBLICATIONS

5.1 Books

- 2013 Carvalho, M.M., Paladini, E.P., Ribeiro, J.L.D., Fogliatto, F.S., Martins, R.A. (*editors*). *Management of Services: Brazilian Case Studies*. Atlas, Sao Paulo, 2013 (*in Portuguese*). ISBN: 978-85-224-8198-9
- 2011 Fogliatto, F.S. & Da Silveira, G.J.C. (*editors*). *Mass Customization: Engineering and Managing Global Operations* (Springer Series in Advanced Manufacturing). Springer Verlag, London, 2011. DOI: 10.1007/978-1-84996-489-0
- 2009 Fogliatto, F.S. & Ribeiro, J.L.D. *Reliability and Industrial Maintenance*. Campus-Elsevier, Sao Paulo, 2009 (*in Portuguese*). ISBN: 978-85-352-3353-7

- 1997 Elsayed, E.A. & Fogliatto, F.S. *Reliability Engineering - Solutions Manual*. Addison Wesley, Reading (MA), 1997. ISSN: 0201634813

5.2 Book Chapters

- 2025 Saurin, T.A., Fogliatto, F.S., Anzanello, M.J., Tocchetto, N.M. & Furstenau, L.B. *Integrating FRAM and lean for waste analysis in production systems*. In Navigating the FRAM: Mastering the Functional Resonance Analysis Method for Modeling Complex Socio-Technical Systems, edited by R. Patriarca, Taylor & Francis, Boca Raton, Ch. 17, 2025.
- 2015 Tortorella, G.L., Fettermann, D.C., Marodin, G.A. & Fogliatto, F.S. *Lean Product Development (LPD) Enablers for Product Development Process Improvement*. In Research Advances in Industrial Engineering, edited by J.P. Davim, Springer, Cham., p. 31-57, 2015. DOI: 10.1007/978-3-319-17825-7
- 2011 Anzanello, M.J. & Fogliatto, F.S. *Job scheduling in customized assembly lines affected by workers' learning*. In Learning Curves: Theory, Models, and Applications, edited by M. Y. Jaber, CRC Press, Boca Raton, p. 335-349, 2011. DOI: 10.1201/b10957
- 2011 Fogliatto, F.S. & Anzanello, M.J. *Learning Curves: The State of the Art and Research Directions*. In Learning Curves: Theory, Models, and Applications, edited by M.Y. Jaber, CRC Press, Boca Raton, p. 3-21, 2011. DOI: 10.1201/b10957
- 2010 Fogliatto, F.S. & Anzanello, M.J. *Statistical Process Control*. In Wiley Encyclopedia of Operations Research and Management Science, edited by J.J. Cochran, J.J. Cochran, L.A. Cox, P. Keskinocak, J.P. Kharoufeh and J.C. Smith, John Wiley, New York, 2010. DOI: 10.1002/9780470400531.eorms0831

5.3 Refereed Journal Papers

- 2026 Tortorella, G.L., Fogliatto, F.S., Vassolo, R., Vergara, A.M., Tiapia, D. Digital Transformation in Healthcare: Are we on the right track? *Journal of Medical Internet Research*, 28, e90308, 2026. DOI: 10.2196/90380
- Silva, P.F., Saurin, T.A., Fogliatto, F.S., Dora, J.M., Rados, D.R.V. Identifying informal leaders among medical residents as a basis for educational interventions. *BMC Medical Education*, 26, 560, 2026. DOI: 10.1186/s12909-026-08918-0
- Mocellin, F.S., Neyeloff, J.L., Fogliatto, F.S., Blume, C., Bahia, L., Schaan, B.D. A Framework for Patient Prioritization in Bariatric Surgery Using a Predictive Success Score Versus a First-In First-Out Approach: A Cost-Effectiveness Analysis. *Value in Health Regional Issues*, 51, 101497, 2026. DOI: 10.1016/j.vhri.2025.101497
- 2025 Fogliatto, F.S., Saurin, T.A., Tonetto, L.M., Melo, I.E.S., Dora, J.M. Designing Healthcare Staff Rosters for Team Resilience: A Social Network Analysis Approach. *International Journal of Healthcare Management*, 1-21, 2025. DOI: 10.1080/20479700.2025.2599814
- Calegari, R., Fogliatto, F.S., Lucini, F.R., Brito, J.B.G., Yamashita, G.H., Anzanello, M.J., Tortorella, G.L., Schaan, B.D. Designing a Long-Term Master Surgical Timetable: A Case

Study in Balancing Post-Operative Ward Bed Demand and Minimizing Changes in Surgical Schedules. *Journal of Scheduling*, 2025. DOI: 10.1007/s10951-025-00851-2

Deina, C., Fogliatto, F.S., Reis, M.A., Schaan, B.D. Machine learning for high-risk hospitalization prediction in outpatient patients with diabetes at a tertiary hospital. *Archives of Endocrinology and Metabolism*, Vol. 69, e230348, 2025. DOI: 10.20945/2359-4292-2024-0317

Tortorella, G.L., Gloet, M., Samson, D., Kurnia, S., Fogliatto, F.S., Anzanello, M.J. Importance and effectiveness of digitalization for performance improvement in the food industry. *Total Quality Management & Business Excellence*, Vol. 36, 919–945, 2025. DOI: 10.1080/14783363.2025.2498411

Narayanamurthy, G., Shiva Jayanth, R.S., Tortorella, G., Fogliatto, F.S. Empirical investigation of barriers and benefits of smart farming. *International Journal of Quality & Reliability Management*, 2025. DOI: 10.1108/IJQRM-09-2024-0320

Melo, I.E.S., Fogliatto, F.S. Integration of decision levels in operating room scheduling problems: systematic review and proposition of a decision support framework. *Computers and Operations Research*, 2025, 107063. DOI: 10.1016/j.cor.2025.107063.

Tortorella, G.L., Fogliatto, F.S., Galeazzo, A., Furlan, A., Nascimento, D. Lean production-based organizational resilience and operational performance of manufacturers during disruptive events. *IEEE Transactions on Engineering Management*, 72, 800-814, 2025. DOI: 10.1109/TEM.2025.3532742.

2024 Porto, B.M., Fogliatto, F.S. Enhanced forecasting of emergency department arrivals using feature engineering approach and machine learning. *BMC Medical Informatics and Decision Making*, 18, 24, 377, 2024. DOI: 10.1186/s12911-024-02788-6.

Fogliatto, F.S., Tortorella, G.L., Saurin, T.A., Galeazzo, A., Furlan, A. Contribution of lean production to the resilience of the Brazilian automotive supply chain. *Production Planning and Control*. DOI: 10.1080/09537287.2024.2421897

Tortorella, G.L., Gloet, M., Samson, D., Kurnia, S., Fogliatto, F.S., Anzanello, M.J. Effects of the interaction between resilience development and digital transformation on the performance of the Australian food supply chains. *International Journal of Logistics Research and Applications*, 1-17, 2024. DOI: 10.1080/13675567.2024.2403565.

König-Klever, E., Bohn, P.R., Libanio, C.S., Fogliatto, F.S., Tonetto, L.M. Design of Health Technologies for Users with Limitations: A Scoping Review. *Technology and Disability*, 2024, AOP. DOI: 10.3233/TAD-230027

Patriarca, R., Simone F., Artime, O., Saurin, T.A., Fogliatto, F.S. On the conceptualization of a Functional Random Walker for the analysis of socio-technical systems. *Reliability Engineering & System Safety*, 251, 110341, 2024. DOI: 10.1016/j.ress.2024.110341

Anzanello, M.J., Fogliatto, F.S., John, D., Ferrao, M.F., Ortiz, R.S., Mariotti, K.C. Gaussian Process regression coupled with mRMR to predict adulterant concentration in cocaine. *Journal of Pharmaceutical and Biomedical Analysis*, 248, 116294, 2024. DOI: 10.1016/j.jpba.2024.116294

Tortorella, G.L., Gloet, M., Samson, D., Kurnia, S., Fogliatto, F.S., Anzanello, M.J. Food supply chain resilience through digital transformation: a mixed-method approach. *International Journal of Logistics Management*, 2024. DOI 10.1108/IJLM-01-2024-0030

Fogliatto, F.S., Saurin, T.A., Tortorella, G.L., Dora, J.M., Tonetto, L.M. Workspace Layout for Resilient Performance using Social Network Analysis: A Case Study. *HERD – Health Environments Research & Design Journal*, Aug 2024. DOI: 10.1177/19375867241271435.

Deina, C., Fogliatto, F.S., Silveira, G.J.C., Anzanello, M.J. Decision Analysis Framework for Predicting No-Shows to Appointments Using Machine Learning Algorithms. *BMC Health Services Research*, 2024, p. 24-37, 2024. DOI: 10.1186/s12913-023-10418-6

Tortorella, G.L., Saurin, T.A., Fogliatto, F.S., Mendoza, D.T. *et al.* Digitalization of maintenance: Exploratory study on the adoption of Industry 4.0 technologies and Total Productive Maintenance practices. *Production Planning & Control*, 35(4), p. 352–372, 2024. DOI: 10.1080/09537287.2022.2083996

2023 Santos, B.M., Fogliatto, F.S., Saurin, T.A., Tortorella, G.L. Modeling help chains in health services as social networks: moving from linearity to complexity. *International Journal of Production Research*, 2023. DOI: 10.1080/00207543.2023.2298486

Burin, H.P., Fogliatto, F.S. & Hsuan, J. The electricity market in Brazil: A multilevel perspective of sector agents for liberalization to residential consumers. *Energy for Sustainable Development*, 76, p. 101289, 2023. DOI: 10.1016/j.esd.2023.101289

Medeiros, N.B., Fogliatto, F.S., Rocha, M.K. & Tortorella, G.L. Predicting the length-of-stay of pediatric patients using machine learning algorithms. *International Journal of Production Research*, AOP, 2023. DOI: 10.1080/00207543.2023.2235029

Tortorella, G.L., Prashar, A., Antony, J., Fogliatto, F.S., Gonzalez, V. & Godinho Filho, M. Industry 4.0 adoption for healthcare supply chain performance during COVID-19 pandemic in Brazil and India: the mediating role of resilience abilities development. *Operations Management Research*, 2023. DOI: 10.1007/s12063-023-00366-z

Tortorella, G.L., Fogliatto, F.S., Mendoza, D.T., Pepper, M. & Capurro, D. Digital transformation of health services: a value stream-oriented approach. *International Journal of Production Research*, 61(6), p. 1814–1828, 2023. DOI: 10.1080/00207543.2022.2048115

Terra, S.X., Saurin, T.A., Fogliatto, F.S., & Magalhaes, A.M.M. Burnout and network centrality as proxies for assessing the human cost of resilient performance. *Applied Ergonomics*, 108, #103955, 2023, DOI: 10.1016/j.apergo.2022.103955.

Tortorella, G.L., Prashar, A., Samson, D., Kurnia, S., Fogliatto, F.S., Capurro, D. & Antony, J. Resilience development and digitalization of the healthcare supply chain: an exploratory study in emerging economies. *International Journal of Logistics Management*, 34(1), p. 130-163, 2023, DOI: 10.1108/IJLM-09-2021-0438

Tortorella, G.L., Fogliatto, F.S., Kumar, M., Gonzalez, V. & Pepper, M. Effect of Industry 4.0 on the relationship between socio-technical practices and workers' performance. *Journal of Manufacturing Technology Management*, 34(1), p. 44-66, 2023, DOI: 10.1108/JMTM-04-2022-0173

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- Da Silveira, G.J.C., Borenstein, D., & Fogliatto, F.S. A review of strategic and operational aspects of mass customization systems. *In* VI International Conference on Industrial Engineering and Operations Management, Sao Paulo (Brazil), October, 2000.
- Da Silveira, G.J.C., & Fogliatto, F.S. Competitive priorities in manufacturing: an empirical analysis of the cumulative model. *In* VII International Annual EurOMA Conference, Gent, June, 2000.
- Guimaraes, L.B.M., Fogliatto, F.S., & Belmonte, F.A.F. Analysis of motivational issues in the work environment. *In* IEA 2000/HFES 2000 Conference, San Diego (USA), June 30 – July 4, 2000.
- Guimaraes, L.B.M., & Fogliatto, F.S. Macroergonomic Design. *In* IEA 2000/HFES 2000 Conference, San Diego (USA), June 30 – July 4, 2000.
- 1999 ten Caten, C.S., Ribeiro, J.L.D., Fogliatto, F.S. Integrated process control – method steps and case study (In Portuguese). *In* XIX Encontro Nacional de Engenharia de Produção, Rio de Janeiro, October, 1999.
- Fogliatto, F.S. Optimization of experiments with quantitative and sensory response variables (In Portuguese). *In* XIX Encontro Nacional de Engenharia de Produção, Rio de Janeiro, October, 1999.
- Fogliatto, F.S. A survey of techniques for optimizing multiresponse experiments. *In* XIX Encontro Nacional de Engenharia de Produção, Rio de Janeiro, October, 1999.

6. PRESENTATIONS

6.1 Invited Talks

- 2023 *Healthcare Operations Management Cases*. At the Centre For Healthcare Resilience And Implementation Science, Macquarie University, Sydney, Australia, April 17, 2023.
- 2018 *Text Mining Applications in Healthcare*. At the University of Auckland Business School, University of Auckland, New Zealand, November 29, 2018 (research with F.R. Lucini, G.J.C. Da Silveira, J.L. Neyeloff, M.J. Anzanello, R.S. Kuchenbecker, and B.D. Schaan).
- Text Mining Approach to Predict Hospital Admissions Using Early Medical Records from the Emergency Department*. At the Industrial Engineering Department, University of Arkansas, USA, September 24, 2018 (research with F.R. Lucini, G.J.C. Da Silveira, J.L. Neyeloff, M.J. Anzanello, R.S. Kuchenbecker, and B.D. Schaan).
- 2017 *Six Sigma Approach to Analyze Time-to-Assembly Variance of Surgical Trays in a Sterile Services Department*. Research Seminar. Copenhagen Business School, Denmark, September 19, 2017 (research with M.J. Anzanello, G.L. Tortorella, D.S.S. Schneider, C.G.R. Pereira, and B.D. Schaan).
- Research Collaborations between UFRGS' Industrial Engineering Department and its University hospital*. Health Summit 2017. Santa Casa Hospital, Porto Alegre, Brazil, December 14, 2017.
- 2015 *Optimizing Operations in a Surgical Theater*. Research Seminar. Haskayne Business School. University of Calgary, Canada, September 9, 2015 (research with M.J. Anzanello).
- 2012 *A Data Mining Method for Breast Cancer Diagnosis Based on Selected Features*. Research Presentation. 7th INFORMS Workshop on Data Mining and Health Informatics. Phoenix (AR), USA, 2012.
- 2008 *A Model to Quantify the Bullwhip Effect in Systems with Stochastic Demand and Lead Time*. Research Seminar. Haskayne Business School. University of Calgary, Canada, October 21, 2008 (research with J.C. Fiorioli).
- 2006 *Multivariate Statistical Control of Unsynchronized Batch Processes*. Research Seminar. Norwegian University of Science and Technology (NTNU), Trondheim, Norway, May 23, 2006.
- 2002 *Indirect pairwise comparison method – An AHP-based procedure for sensory data collection and analysis in product development and reliability tests*. Keynote address at the 6th Sensometrics Meeting. Dortmund, Germany, August 1, 2002.

7. TEACHING AND TRAINING

7.1 Undergraduate and Graduate Teaching

Universidade Federal do Rio Grande do Sul (UFRGS) – Undergraduate

Operations Research for Engineers I – 4 cr./week (60h) for B.S. Industrial Engineering, 36 sections since 2006.

IE Capstone Project II – 6 cr./week (90h) for B.S. Industrial Engineering, 23 sections, since 2013.

Reliability Engineering & Maintenance – 2 cr./week (30h) for B.S. Industrial Engineering, 22 sections since 2006.

Metrology and Testing – 2 cr./week (30h) for B.S. Industrial Engineering, 1 section in 2011.

Facility Layout and Location – 4 cr./week (60h) for B.S. Industrial Engineering, 6 sections, since 2010.

Production Planning and Control II – 2 cr./week (30h) for B.S. Industrial Engineering, 3 sections, from 2004 to 2005.

Universidade Federal do Rio Grande do Sul (UFRGS) – Graduate / MSc & PhD levels

Operations Research I (Deterministic Models) – 3 cr./week (45h) for M.Sc. and Ph.D. in Industrial Engineering, 24 sections, since 2003.

Operations Research II (Stochastic Models) – 3 cr./week (45h) for M.Sc. and Ph.D. in Industrial Engineering, 1 section, in 2011.

Production Planning and Control I – 3 cr./week (45h) for M.Sc. and Ph.D. in Industrial Engineering, 7 sections, from 2006 to 2014.

Quantitative Methods (Multivariate Statistics) – 3 cr./week (45h) for M.Sc. and Ph.D. in Industrial Engineering, annually, 4 sections, from 2003 to 2010.

PhD Seminar in Quality Engineering – 3 cr./week (45h) for Ph.D. in Industrial Engineering, 2 sections, in 2003.

Probability and Statistics – 3cr./week (45h) for M.Sc. and Ph.D. in Industrial Engineering, annually, 3 sections, from 2003 to 2004.

Quality Management Systems – 3cr./week (45h) for M.Sc. and Ph.D. in Industrial Engineering, 1 section, in 2002.

Universidade Federal do Rio Grande do Sul (UFRGS) – Graduate / MBA

Operations Research & Optimization – 3 cr. (45h) for MBA in Industrial Engineering, 14 sections, since 2004.

Production Planning and Control I – 3 cr. (45h) for MBA in Industrial Engineering, 5 sections,

from 2013 to 2017.

Production Planning and Control II – 3 cr. (45h) for MBA in Industrial Engineering, 1 section, in 2014.

Demand Planning and Management (Forecasting models) – 3 cr. (45h) for MBA in Industrial Engineering, 3 sections, from 2014 to 2016.

Capstone Project – 3 cr. (45h) for MBA in Industrial Engineering, 1 section, in 2015.

Six Sigma and Analytical Reasoning – 3 cr. (45h) for MBA in Industrial Engineering, 1 section, in 2014.

7.2 Executive Diploma Courses and Seminars

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| 2022 | <i>Multilayer Network Analysis</i> . 3-hour seminar, 3 sections, from 2020 to 2022. Part of the STERNA (Resilience Engineering and Safety Management) project. UFRGS & Norwegian University of Science and Technology (NTNU), https://www.ntnu.edu/iot/sterna . |
| 2015 | <i>Healthcare Operations Management</i> . 30-hour course. In-company MBA, Clinics Hospital of Porto Alegre, Brazil. |
| 2014 | <i>Six Sigma Analytical Tools</i> . 45-hour course, In-company M.Sc. in Industrial Engineering, RBS (Rede Brasil Sul), Porto Alegre, Brazil.

<i>Reliability and Risk Analysis Applied to Subsea Valves</i> . In-company MBA, Petrobras, Porto Alegre, Brazil. |
| 2011 | <i>Operations Research I – Deterministic Models</i> . 30-hour course, In-company M.Sc. in Industrial Engineering, Vale Mining Company, Carajas, Brazil.

<i>Operations Research II – Integer Programming and Multicriteria Decision Methods</i> . 30-hour course, In-company M.Sc. in Industrial Engineering, Vale Mining Company, Carajas, Brazil.

<i>Quantitative Methods – Multivariate Statistics</i> . 30-hour course, In-company M.Sc. in Industrial Engineering, Vale Mining Company, Carajas, Brazil. |
| 2006 | <i>Reliability Engineering</i> . 30-hour course. International MBA in Operations Management. Ecole des Mines de Nantes, France. |

7.3 Training of Highly Qualified Personnel

Supervisor – Ph.D. level

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| 2026 | Heloisa Pereira Burin, <i>Study of the energy market liberalization in Brazil and its implications for distributed photovoltaic generation business models</i> , Ph.D. in Industrial Engineering, UFRGS. |
| 2025 | Bruno Matos Porto, <i>Forecasting Patient Arrivals and Improving Triage in Emergency Departments</i> , Ph.D. in Industrial Engineering, UFRGS. |

- 2024 Carolina Deina, *Enhancing Healthcare Decision-Making with Machine Learning in Classification Problems with Imbalanced Data*, Ph.D. in Industrial Engineering, UFRGS.
- Bruno Miranda dos Santos, *Contributions to the Operations Management of Sterilized Material Centers*, Ph.D. in Industrial Engineering, UFRGS.
- 2022 Valentina Marques da Rosa, *Innovation to Improve the Subjective Well-being of Pediatric Cancer Patients*, Ph.D. in Industrial Engineering (Co-Supervised by Prof. Priscila Brust-Henck – Psychology Department, Unisinos), UFRGS.
- Rodolfo Benedito Zattar da Silva, *Mathematical Model for Dynamic Capacity Allocation in Radiology Services*, Ph.D. in Industrial Engineering, UFRGS.
- 2021 Rafael Calegari, *Optimizing Surgical Theaters to Reduce Demand Variability for Hospital Resources*, Ph.D. in Industrial Engineering (Co-Supervised by Prof. Beatriz D. Schaan – Medical School, UFRGS), UFRGS.
- 2018 Filipe R. Lucini, *Text Mining Applications in Industrial Engineering*, Ph.D. in Industrial Engineering (Co-Supervised by Prof. Giovanni J.C. da Silveira – University of Calgary, Canada), UFRGS.
- Fernanda A.P. Peres, *Variable Selection Methods Applied to Multivariate Statistical Control of Batch Processes*, Ph.D. in Industrial Engineering, UFRGS.
- 2015 Alexandre H. Pedott, *Functional Data Analysis Applied to Quality Engineering*, Ph.D. in Industrial Engineering, UFRGS.
- 2014 Gabriel Vidor, *Quality Control of Mass Customized Products and Processes*, Ph.D. in Industrial Engineering (Co-Supervised by Prof. Mitchell M. Tseng – Hong Kong University of Science and Technology, Hong Kong), UFRGS.
- Ricardo C. Veloso, *Modeling of Conveyor Belts Degradation Curves Based on Covariables Inherent to the Mining Process*, Ph.D. in Industrial Engineering, UFRGS.
- 2013 Flavia S.T. Pinto, *Consistency Assessment of Panelists Performing Subjective Evaluations*, Ph.D. in Industrial Engineering, UFRGS.
- Graciela A. Pelegrini, *Maintenance Planning Model for Refrigerated Cargo Trucks*, Ph.D. in Industrial Engineering, UFRGS.
- 2012 Guilherme L. Tortorella, *Methodology for the Identification and Assessment of Socio-Cultural Factors in a Company under Lean Implementation*, Ph.D. in Industrial Engineering, UFRGS.
- 2011 Karina Rossini, *Variable Selection in Product Development, Classification and Prediction*, Ph.D. in Industrial Engineering (Co-Supervised by Prof. El Mostafa Qannari – École Nationale Vétérinaire, Agroalimentaire et de l'Alimentation Nantes-Atlantique, France), UFRGS.
- 2010 Luiz F. Casagrande, *A Systematic Approach to Forecasting Business Results Based on Scenarios*, Ph.D. in Industrial Engineering, UFRGS.
- 2009 Danilo Marcondes Filho, *Multivariate Control Charts Based on the Kernel-Statistics Method*

for Batch Process Monitoring, Ph.D. in Industrial Engineering, UFRGS.

Carla S.R. Neumann, *A Systematic Assessment of Layout Flexibility in Dynamic Environments*, Ph.D. in Industrial Engineering, UFRGS.

2008 Gilberto T. dos Santos, *A Reliability Model Associating Warranty and Post-Warranty Data, Considering Three Failure Modes*, Ph.D. in Industrial Engineering (Co-Supervised by Prof. Marvin Rausand – Norwegian University of Science and Technology, Norway), UFRGS.

2007 Jose C. Fiorioli, *Mathematical Modeling of the Bullwhip Effect in Supply Chains*, Ph.D. in Industrial Engineering, UFRGS.

Supervisor – Academic M.Sc. level

2021 Natalia B. Medeiros, *Forecasting the Length of Stay of Pediatric Patients in Hospitals as a Tool for Resource Management*, M.Sc. in Industrial Engineering (Co-Supervised by Prof. Miriam K. Rocha – Universidade Federal Rural do Semi-Árido), UFRGS.

2020 Thiago A.S. Cardoso, *Comparative Analysis of the Main International University Rankings*, M.Sc. in Industrial Engineering, UFRGS.

2019 Márcia M.M. Langeloh, *Analysis of Requirements for the Recognition of Foreign Diplomas in Brazil*, M.Sc. in Industrial Engineering, UFRGS.

2016 Marcos Gerchman, *Optimization Problems in Industrial and Logistics Settings*, M.Sc. in Industrial Engineering, UFRGS.

2014 Rafael Calegari, *Demand Forecasting Models Applied in Airports and Hospitals*, M.Sc. in Industrial Engineering, UFRGS.

Leandro Fernandes, *Decision Support Tool for Prioritizing Maintenance Works in Electric Power Distribution Networks*, M.Sc. in Industrial Engineering, UFRGS.

2012 Nicole Holsbach, *Modeling Medical Diagnosis Through Data Mining Techniques*, M.Sc. in Industrial Engineering, UFRGS.

2011 Alexandre H. Pedott, *Functional Data Analysis Applied to the Gage R&R Studies: ANOVA of Distances*, M.Sc. in Industrial Engineering, UFRGS.

2009 Clovis G. Fernandes, *Methodology for Estimating the Lifetime of Components Using Reliability Techniques*, M.Sc. in Industrial Engineering, UFRGS.

2008 Carlos A. Cristofari Jr., *Proposed Method for Maturity Analysis and Prioritization of Improvements in NPD Management*, M.Sc. in Industrial Engineering, UFRGS.

Fabiano A. Buzzetto, *Implementation of a New Project Management System in an Electronic Components Company*, M.Sc. in Industrial Engineering, UFRGS.

2007 Camila C. Dutra, *Extensions to the Pairwise Indirect Comparison Method*, M.Sc. in Industrial Engineering, UFRGS.

Cicero M. Lucas, *Process Optimization With Multiple Categorical Responses*, M.Sc. in Industrial Engineering, UFRGS.

- 2006 Fernando O. Lemos, *Methodology for Selecting Demand Forecasting Models*, M.Sc. in Industrial Engineering, UFRGS.
- 2005 Patricia K. Biasoli, *Joint Modeling of Mean and Dispersion in Fractional Experiments Using Generalized Linear Models*, M.Sc. in Industrial Engineering, UFRGS.
- Melissa P. Gerhardt, *Balancing of Multi-Product Production Lines*, M.Sc. in Industrial Engineering, UFRGS.
- Guilherme L. Tortorella, *Application of Systematic Layout Planning Techniques in Continuous Process Industries*, M.Sc. in Industrial Engineering, UFRGS.
- 2004 Michel J. Anzanello, *Allocating Product Models to Worker Teams Based on Learning Curves*, M.Sc. in Industrial Engineering, UFRGS.
- Marcelo N. Cortimiglia, *Internet-Based Virtual Learning Environment*, M.Sc. in Industrial Engineering, UFRGS.
- Luis A. Usevicius, *Application of Six Sigma Methodology to Problem-Solving and Manufacturing Process Optimization*, M.Sc. in Industrial Engineering, UFRGS.
- 2003 Douglas R. Zaions, *Application of Reliability-Centered Maintenance in a Pulp and Paper Plant*, M.Sc. in Industrial Engineering, UFRGS.
- Vanderlei R. Lara, *Development of an Aggregate Production Plan for an Agro-Industrial System*, M.Sc. in Industrial Engineering, UFRGS.
- 2002 Paulo R.M. Fagundes, *A Systematic Approach to Reducing Setup Time in the Furniture Industry*, M.Sc. in Industrial Engineering, UFRGS.
- Fabiane Ely, *Method for Planning and Scheduling Service Delivery Operation*, M.Sc. in Industrial Engineering, UFRGS.
- Jose C. Fiorioli, *Stochastic Modeling of Hierarchical Inventory Systems*, M.Sc. in Industrial Engineering, UFRGS.
- Morgana Pizzolato, *Experimental Optimization Method for Quality and Durability of Products: A Case Study of a Product Manufactured by Plastic Injection Molding*, M.Sc. in Industrial Engineering, UFRGS.
- 2001 Danilo Marcondes Filho, *Batch Process Monitoring Through Multivariate Control Charts Using Multidirectional Principal Component Analysis*, M.Sc. in Industrial Engineering, UFRGS.
- Rogério Royer, *A Feasibility Indicator for the Customization of Manufactured Products*, M.Sc. in Industrial Engineering, UFRGS.
- Renato Michel, *Implementation of Adaptive Control Charts in Manufacturing Processes*, M.Sc. in Industrial Engineering, UFRGS.
- 2000 Fernando R. Pelegrini, *Methodology for Implementing Demand Forecasting Systems*, M.Sc. in Industrial Engineering, UFRGS.
- Luiz G.M. Mury, *Methodology for Adaptation and Product Improvement Through Reverse Engineering*, M.Sc. in Industrial Engineering, UFRGS.

Supervisor – Professional M.Sc. Theses and Undergraduate Capstone Projects

Responsible for supervising 32 Professional Master's theses and 20 Undergraduate Capstone projects. A complete list of supervised students is available at <http://lattes.cnpq.br/9450876365827439>.

7.3 M.Sc. and Ph.D. examination committees

Internal member

2024-1999 Internal member in 56 M.Sc. committees held at the Industrial Engineering Department, UFRGS.

2024-1999 Internal member in 10 Ph.D. committees held at the Industrial Engineering Department, UFRGS.

External member

2023 Patricia Raquel Bohn. *The Potential of Design to Enhance User Experiences in an Outpatient Oncology Service*. M.Sc. Committee. Postgraduate Program in Information Technology and Health Management. Universidade Federal de Ciencias da Saude.

2021 Cynthia dos Santos Hentschke. *A Method for Capturing Customers' Demands and Supporting Customer Integration in Mass Customization Strategies for Housing*. Ph.D. Committee, Civil Engineering Dept., UFRGS.

2020 Eduardo Nesi Bubicz. *Use of the CUSUM Statistical Process Control Chart for Monitoring Index Tracking Portfolios*. M.Sc. Committee, Business School, UFRGS.

2019 Monica Frank Marsaro. *Opportunity-Based Maintenance Models Considering Imperfect Inspection and Multiple Criteria*. Ph.D. committee, Industrial Engineering Dept., Universidade Federal de Pernambuco.

2018 Lucas Schmidt Goecks. *Layout Planning for Small and Medium-Sized Enterprises: An Analysis Using Systematic Layout Planning and Particle Swarm Optimization*. M.Sc. Committee, Industrial Engineering Dept., Universidade do Vale do Rio dos Sinos.

2017 Rafael Marques. *Analysis of Efficiency and Customer Influences in Service Operations*. M.Sc. Committee. Industrial Engineering Dept., Universidade do Vale do Rio dos Sinos.

2016 João Francisco Monteiro Barragan. *Contributions of the Wavelet Transform for Clustering and Pattern Recognition in Time Series*. M.Sc. Committee. Industrial Engineering Dept., Universidade Federal da Bahia.

2015 Sergio Ferreira Bastos. *Monitoring the dispersion of multivariate processes through*

- projections of the observed variable vector*. Ph.D. Committee, Industrial Engineering Dept., Pontificia Universidade Catolica do Rio de Janeiro.
- 2014 Tiago Klassmann Daudt. *The Use of Mathematical Models to Calculate the Bullwhip Effect in a Steel Manufacturer*. M.Sc. Committee, Business School, UFRGS.
- Cristiano Porto Klanovicz. *Strategic Design and Product Personality: The Effect of 'Heel Shoe' Sound Stimuli on Users' Experiences*. M.Sc. Committee, School of Design, Universidade do Vale do Rio dos Sinos.
- 2012 Marcelo J. Meirino. *Analysis of the Innovation Ecosystem in the Brazilian Civil Construction Sector*. Ph.D. committee, Civil Engineering Dept., Universidade Federal Fluminense.
- Paulo H.C. Maranhao. *Statistical Control Charts of Transformed Variables for Monitoring Multivariate Processes*. Ph.D. Committee, Industrial Engineering Dept., Pontificia Universidade Católica do Rio de Janeiro.
- Juan F.F. O'Keefe. *Analysis of Impact Factors on Estimation Errors in Effort and Duration of Software Projects*. M.Sc. Committee, Business School, Universidade do Vale do Rio dos Sinos.
- 2011 Anderson J.M. Brito. *Multi-Attribute Decision Models for Centralized and Coordinated Inventory Management in a Two-Stage Supply Chain Operating on a Single-Period Problem*. Ph.D. Committee, Industrial Engineering Dept., Universidade Federal de Pernambuco.
- 2010 Rogerio Royer. *Structural and Organizational Elements for Enabling the Mass Customization Strategy: Case Analysis in the Furniture Industry of Rio Grande do Sul*. Ph.D. Committee, Business School, UFRGS.
- Daniel Battaglia. *Identification and Assessment of Service Recovery Dimensions*. M.Sc. Committee, Industrial Engineering Dept., Universidade do Vale do Rio dos Sinos.
- 2009 Marco A.O. Domingues. *Robust Linear Regression Methods for Symbolic Interval Data*. Ph.D. Committee, Computer Science Dept., Universidade Federal de Pernambuco.
- 2008 Adriano Siqueira Pylro. *Harrison & Stevens Linear Model Applied to Statistical Control of Autocorrelated Processes*. Ph.D. Committee, Industrial Engineering Dept., Pontificia Universidade Católica do Rio de Janeiro.
- 2005 Ariane F.P. Rosa. *Maîtrise Statistique de Procédés par Lots à Temps Variable*. Ph.D. Committee, Sciences et Technologies de L'information, Ecole des Mines de Nantes, France.
- Rafael Teixeira. *Trade-Offs of Operations in Customized Services and the Customer's Point of View*. M.Sc. Committee, Business School, Universidade do Vale do Rio dos Sinos.
- 2004 Antonio F.C. Vieira. *Analysis of the Mean and Dispersion in Fractional Experiments*

with No Replicates for the Optimization of Industrial Processes. Ph.D. Committee, Industrial Engineering Dept., Pontifícia Universidade Católica do Rio de Janeiro.

Claudio Bezerra Leopoldino. *Risk Assessment in Software Development*. M.Sc. Committee, Business School, UFRGS.

Fabio Kellermann Schramm. *Production System Design in the Management of Social Housing Projects*. M.Sc. Committee, Civil Engineering Dept., UFRGS.

2003 Vanderlei Alves da Silva. *Emergency Planning in Brazilian Refineries*. M.Sc. Committee, Industrial Engineering Dept., Universidade Federal Fluminense.

2002 Ubiratan Vieira Guimaraes. *Reliability Analysis of Products Under Warranty*. M.Sc. Committee, Business School, UFRGS.

Leonardo Rosa Rohde. *Representation in Normal Disjunctive Form for Scheduling Flexibility in Manufacturing*. M.Sc. Committee, Business School, UFRGS.

Luciano Brandao. *Sequencing Parallel Processors Using the Tabu Search Heuristic Goal*. M.Sc. Committee, Business School, UFRGS.

2001 Marcia J.H. Rehfeldt. *A Heuristic Applied to a Scheduling Problem in the Footwear Industry*. M.Sc. Committee, Business School, UFRGS.

1999 Carla Schwengber ten Caten. *Integrated Quality Control of Coatings Manufacturing Processes*. Ph.D. committee, Materials Engineering Dept., UFRGS.

1998 Luiz F.N. Chaves. *The Relationship Between Quality of Life at Work and Total Quality*. M.Sc. Committee, Business School, Universidade Federal do Rio Grande do Norte.

8. SERVICE

8.1 University Service

School of Engineering, Universidade Federal do Rio Grande do Sul: Administration and Institutional Development

2019–2016 Graduate Director, Graduate Program in Industrial Engineering

2019–2016 President, FEENG (School of Engineering Research Foundation)

2019–2017 President, School of Engineering Graduate Chamber

2016–2018 Coordinator, MBA in Healthcare Operations Management

2007–2009 Graduate Director, Graduate Program in Industrial Engineering

2011–2012 Coordinator, Graduate Commission, Graduate Program in Industrial Engineering

2010–2014 Coordinator, MBA in Industrial Engineering

2003–2005 Coordinator, MBA in Production Management

2002–2005 Department Chair, Industrial Engineering Department

Universidade Federal do Rio Grande do Sul: Central Administration

- 2020–2016 Elected Member, University Council for Research, Extension, and Teaching
- 2016–2012 Elected Member, Post-Graduate Chamber
- 2016–2012 Appointed Representative, University Council for Research, Extension, and Teaching
- 2014–2012 Elected Member, Administrative Appeals Commission

8.2 Governmental Services

- 2028–2025 Appointed Member, Industrial and Transportation Engineering Advisory Committee, CNPq – National Council for Scientific and Technological Development, Brazilian Ministry of Science and Technology
- 2019–Date Ad hoc referee, National Research Foundation, Prime Minister's Office, Singapore
- 2016–Date Ad hoc referee, Technology Foundation STW, The Netherlands
- 2010–Date Ad hoc referee, FAPESP (Sao Paulo Agency for Science, Culture, and Development), Sao Paulo State Government
- 2000–Date Ad hoc referee, CNPq – National Council for Scientific and Technological Development, Brazilian Ministry of Science and Technology
- 2005–Date Ad hoc referee, FAPERGS (Rio Grande do Sul Agency for Science, Culture, and Development), Rio Grande do Sul State Government
- 2009–Date Ad hoc referee, CAPES – Coordination for the Improvement of Higher Education Personnel, Brazilian Ministry of Education
- 2021–2018 Appointed Member, Industrial and Transportation Engineering Advisory Committee, CNPq – National Council for Scientific and Technological Development, Brazilian Ministry of Science and Technology
- 2016–2009 Appointed Member, Engineering Advisory Committee (responsible for the ranking of Engineering Graduate Programs), CAPES – Coordination for the Improvement of Higher Education Personnel, Brazilian Ministry of Education

8.3 Scientific Associations

- 2025-date Executive Director, Brazilian Association of Graduate and Research Programs in Industrial Engineering, Brazil
- 2024–2021 Scientific Director, Brazilian Association of Graduate and Research Programs in Industrial Engineering, Brazil

2010 Latin American Representative, International Activities Committee, INFORMS (Institute for Operations Research and the Management Sciences), USA

8.4 Academic Conference Services

Organizing Committee & Board / Chair, Co-Chair

2025 Co-Chair, Organizing Committee, Joint 11th biannual REA Symposium and 14th annual Resilient Health Care Society Meeting, Oct 20-24, 2025, Canela, Brazil

Member, Organizing Committee, SBPO – LVII Simposio Brasileiro de Pesquisa Operacional (Brazilian Symposium of Operations Research), Oct 5–9, 2025, Gramado, Brazil

Co-Chair, Organizing Committee, IX ENPPEPRO (Brazilian Conference of Graduate and Research Programs in Industrial Engineering), Sept 24–26, 2025, Porto Alegre, Brazil

2024 Co-Chair, Organizing Committee, VIII ENPPEPRO (Brazilian Conference of Graduate and Research Programs in Industrial Engineering), Sept 25–27, 2024, Rio de Janeiro, Brazil

2023 Co-Chair, Organizing Committee, VIII ENPPEPRO (Brazilian Conference of Graduate and Research Programs in Industrial Engineering), Sept 27–29, 2023, Rio de Janeiro, Brazil

2022 Co-Chair, Organizing Committee, VII ENPPEPRO (Brazilian Conference of Graduate and Research Programs in Industrial Engineering), Online, Brazil

2021 Chair, Organizing Committee, VI ENPPEPRO (Brazilian Conference of Graduate and Research Programs in Industrial Engineering), Sept 16–18, 2019, Porto Alegre, Brazil

2019 Chair, Organizing Committee, VI ENPPEPRO (Brazilian Conference of Graduate and Research Programs in Industrial Engineering), Sept 16–18, 2019, Porto Alegre, Brazil

2010 Advisory Committee, MCP-Asia Pacific 2010: An International Conference on Mass Customization and Personalization: Dec 06-09, 2010, Taipei, Taiwan

2005 Co-Chair, Organizing Committee, XXV Brazilian Conference on Industrial Engineering (ENEGEP), October 29 – November 01, 2005, Porto Alegre, Brazil

2001 Co-Chair, Organizing Committee, XXI Brazilian Conference on Industrial Engineering (ENEGEP), October 17–19, 2001, Salvador, Brazil

2002–2001 Chair, Organizing Committee, ICIEOM (International Conference on Industrial Engineering and Operations Management): Curitiba (Brazil), Oct 23-25, 2002; Salvador (Brazil), Oct 9-11, 2001

Scientific Committee Member/Reviewer

- 2025 IX ENPPEPRO IX ENPPEPRO (Brazilian Conference of Graduate and Research Programs in Industrial Engineering), Sept 24–26, 2025, Porto Alegre, Brazil
- 2024 DRS2024 Conference. Design Research Society, Boston, USA, June 22-28, 2024
VIII ENPPEPRO (Brazilian Conference of Graduate and Research Programs in Industrial Engineering), Rio de Janeiro, Brazil, Sept 25–27, 2024
- 2023 30th International EurOMA Conference, Leuven, Belgium, July 01-06, 2022
VIII ENPPEPRO (Brazilian Conference of Graduate and Research Programs in Industrial Engineering), Rio de Janeiro, Brazil, Sept 27–29, 2023
- 2022 DRS2022 Conference. Design Research Society, Bilbao, Spain, June 25-July 3, 2022
29th International EurOMA Conference 2022, Berlin, Germany, July 01-06, 2022
Southeastern Decision Science Institute (SEDSI) Conference, Jacksonville, Florida (USA), February 16-18, 2022
VII ENPPEPRO (Brazilian Conference of Graduate and Research Programs in Industrial Engineering), Online, Brazil
- 2021 POMS Lima 2021: Production and Operations Management Society Virtual Conference, Lima, Peru, December 2-4, 2021
- 2020-2014 ENPPEPRO (Brazilian Conference of Graduate and Research Programs in Industrial Engineering): Belo Horizonte, Sept 9-11, 2020; Porto Alegre, Sept 16–18, 2019; Florianopolis, Sept 17-19, 2018; Rio de Janeiro, Sept 14-15, 2017; Curitiba, Sept 15-16, 2016; Niteroi, Sept 17-18, 2015; Recife, Nov 27-28, 2014
- 2012–2010 Annual Symposium of the Brazilian Operational Research Society (SBPO): Rio de Janeiro, Sept 24-28, 2012; Ubatuba, Aug 15-18, 2011; Bento Goncalves, Aug 30–Sep 03, 2010
- 2009 IEEE International Conference on Industrial Engineering and Engineering Management, Dec 8-11, Hong Kong, 2009
- 2008 IEEE International Conference on Industrial Engineering and Engineering Management, Dec 8-11, Singapore, 2008
- 2008-1998 ENEGEP (Brazilian Conference on Industrial Engineering): Rio de Janeiro, Oct 13-16, 2008; Foz do Iguassu, Oct 9-11, 2007; Fortaleza, Oct 9-11, 2006; Porto Alegre, Oct 29–Nov 01, 2005; Florianopolis, Nov 3-6, 2004; Ouro Preto, Oct 21-24, 2003; Curitiba, Oct 23-25, 2002; Salvador, Oct 9-11, 2001; Sao Paulo, Oct 7-10, 2000; Rio de Janeiro, Nov 3-4, 1999; Niteroi, Sept 21-25, 1998

Session Chair/Panel Moderator

- 2009 Session Chair, IEEE International Conference on Industrial Engineering and Engineering Management, Quality Control and Management Track, Dec 8-11, 2009, Hong Kong

8.5 Scholarly Journals

Reviewer

International Journal of Production Economics
International Journal of Production Research
International Journal of Lean Six Sigma
International Journal of Operations & Production Management
Health Care Management Science
IEEE Transactions on Engineering Management
IIE Transactions
Artificial Intelligence in Medicine
Operations Management Research
BMC Health Services Research
Computers & Industrial Engineering
Expert Systems with Applications
Food Quality and Preference
Journal of Food Science
Journal of Health Organization and Management
Plos One
Production Planning and Control
Gestão e Produção
Pesquisa Operacional
Production (São Paulo)
Revista Gestão Industrial

8.6 Hiring, Promotion, and Tenure

2023	External examiner, Full Professor Promotion, Industrial Engineering Department, Universidade Federal de Pernambuco (UFPE), Brazil
2020	External examiner, Full Professor Promotion, Industrial Engineering Department, Universidade Federal de São Carlos (UFSCAR), Brazil
	External examiner, Full Professor Promotion, Industrial Engineering Department, Universidade Federal da Bahia (UFBA), Brazil

2008 President, Hiring Committee, Quality and Reliability, Industrial Engineering
Department, UFRGS