

Paul Leger: Report from 2025

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Personal

Name: Paul Leger
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Publications

My research profile IDs are *ORCID* (0000-0003-0969-5139), *Web of Science* (Q-6174-2017), and *Scopus* (36087550600).

NOTE: For conferences/workshops, I use the CORE ranking, which belongs COMputing REsearch and Education Association of Austral-asia (near to the publication year). CORE is available on <http://portal.core.edu.au/conf-ranks>.

Journals (Indexed)

- Canquil, Diego, Daniel SanMartín, Irene Inoquio-Renteria, and Paul Leger (Jan. 2026). "A Systematic Literature Review on Machine Learning Techniques for Predicting Household Water Consumption". In: *Water Resources Management* 40.2, p. 83. DOI: 10.1007/s11269-026-04496-4. **JCR-WOS**.
- Leger, Paul, David Moreno-Lumbreras, Felipe Ruiz, Nicolás Sepúlveda, Ismael Figueroa, and Nicolás Cardozo (Feb. 2026). "The Stackage Repository: An Exploratory Study of its Evolution". In: *Journal of Computer Languages* 86, p. 101386. DOI: 10.1016/j.cola.2026.101386. **JCR-WOS**.
- Leger, Paul, Daniel San Martín, Diego Nuñez, and Tomás Vélez (Feb. 2026). "An Agent-Based Model Reflective Architecture for Social Network Sites". In: *Science of Computer Programming*. **JCR-WOS. To appear.**
- Abdi, Farshid, Shaghayegh Abolmakarem, Amir Karbassi-Yazdi, Paul Leger, Yong Tan, and Giuliani Coluccio (Jan. 2025). "Predicting Patients' Revisit Intention Based on Satisfaction Scores: Combination of Penalized Regression and Neural Networks". In: *IEEE ACCESS* 13, pp. 2783–2800. DOI: 10.1109/ACCESS.2024.3522767. **JCR-WOS**.
- Karbassi, Amir, Yang Tan, and Paul Leger (Jan. 2025). "Clustering Financial Institutions in Countries Based on a Hybrid Random Forest and Induced Ordered Weighted Averaging". In: *Journal of Management Analytics*, pp. 1–30. DOI: 10.1080/23270012.2025.2454674. **JCR-WOS**.
- Terán, Oswaldo, Paul Leger, and Manuela López (Apr. 2025). "Factors that Drive Market Share and the Oligopolistic Character of Cross-border B2C Ecommerce: An agent-based scenario analysis approach". In: *Simulation: Transactions of the Society for Modeling and Simulation International* 0.0, pp. 1–24. DOI: 10.1177/00375497241296542. **JCR-WOS**.

Conferences (SCOPUS)

- Liu, Shijin, Hiroaki Fukuda, and Paul Leger (Mar. 2026). "SOM-based Continuous XGBoost Approach for DDoS Attack Detection and Mitigation in Edge SDN". In: *Workshop on Programmable and Learning Architectures for Intelligent Networks*. Athens, Greece. **SCOPUS. Rank National-France (CORE ranking). To appear.**

Ogino, Toshihiro, Hiroaki Fukuda, and Paul Leger (July 2025). "Stepwise Distributed Execution for Load Reduction in Machine Learning Systems". In: *International Symposium on Parallel and Distributed Computing (ISPD)*. Rennes, France. **To appear. SCOPUS. Rank C (CORE ranking).**

You, Koshi, Hiroaki Fukuda, and Paul Leger (Apr. 2025). "The Impact of Context-Oriented Programming on Declarative UI Design in React". In: *Evaluation of Novel Approaches to Software Engineering (ENASE)*. Porto, Portugal, pp. 700–707. DOI: 10.5220/0013432300003928. **SCOPUS. Rank B (CORE ranking).**

Workshops (SCOPUS)

Congresses (Conferences/Workshops not indexed)

Note: These papers are just presentations of technical reports or working papers.

Moreno-Lumbreras, David, Paul Leger, Sergio Montes-León, Jesus Gonzalez-Barahona, and Gregorio Robles (Sept. 2025). "Evaluating the Comprehension of the Stackage Ecosystem: A Comparison between VR and 2D Visualizations". In: *Registered Report: 2025 IEEE International Conference on Software Maintenance and Evolution (ICSME)*. Auckland, New Zealand. DOI: 10.2139/ssrn.5362665. **Registered Report.**

Posters

Scientific Services

Manager (x 2)

- **Director on the Engineering School at UCN, Coquimbo (Chile), 2023 - present, <https://www.ucn.cl>.**
- **Pragmatics Lab. Founder and director of the research laboratory in software development and simulations of agent-based models, Virtual (Chile), 2018 - present, <https://pragmatics-lab.com>.**

Journal Editor (x 3)

- **Associate Editor on Frontiers in Computer Science, ISSN: 2624-9898, Frontiers, 2025 - present, JCR-WOS.**
- **Editorial Member on Journal of Innovations in Digital Marketing, ISSN: 2765-8341, Luminous Insights, 2021 - present.**
- **Guest Editor on Frontiers in Computer Science - Special Issue on Artificial Intelligence for Software Engineering: Advances, Applications, and Implications, ISSN: 2624-9898 - Frontiers, 2025, NOTE: 2025.**

Journal Reviewer (x 1)

- **Journal of Systems and Software, ISSN: 0164-1212, ELSEVIER, 2025, JCR-WOS.**

Program Committee Member (x 4)

- **(SPLASH) 2025 Workshop on Virtual Machines and Language Implementations, Singapore, 2025, SCOPUS, <https://conf.researchr.org/home/icfp-splash-2025/vmil-2025>.**
- **International Conference on Software Maintenance and Evolution (ICSME) - Industry Track, Auckland (New Zealand), 2025, SCOPUS, <https://conf.researchr.org/track/icsme-2025/icsme-2025-industry-track>.**
- **XXXVI International Marketing Congress (AEMARK), Murcia (Spain), 2025, <https://aemarkcongresos.com/areas-tematicas-y-comite-cientifico>.**
- **International Conference on Software Technologies (ICSOFT), Bilbao (Spain), 2025, SCOPUS, <https://icsoft.scitevents.org/ProgramCommittee.aspx>.**

Evaluator (x 5)

- **President of the Ph.D thesis commission: "Diversidad de Licencias en Software Libre"**, Universidad Rey Juan Carlos (Spain), 2025, <https://en.urjc.es>.
- **President of the Ph.D thesis commission: "Integrated Mathematical Models for Agricultural Decision-Making Under Uncertainty: Efficiency; Water Optimization and Resilience in Olive Production."**, Universidad Católica del Norte (Chile), 2025, <https://www.ucn.cl>.
- **Evaluator of Fondef-IDeA Projects (x 3)**, ANID (Chile), 2023 - 2025, <https://anid.cl/concursos/concurso-idea-id-tecnologias-avanzadas-2025/2025>.

Academic Experience

Undergraduate (x 12)

Complex Engineering Problems (x 4), Information and Information Technology, Catholic University of the North, 2024 - 2026.

Programming Languages (x 8), Computer Civil Engineering, Catholic University of the North, 2021 - 2025.

Thesis Advising (x 27)

Postgraduate (x 3), Ph. D and Master, Catholic University of the North, 2017 - 2025.

Undergrad (x 24), Engineering, Catholic University of the North, 2013 - 2025.