# Paul Leger: Report from 2025

Associate Professor & Software Engineer
Civil Engineering School
Catholic University of the North
Larrondo 1281, Coquimbo, Chile

Email: pleger@ucn.cl
Homepage: http://pleger.cl
Pragmatics lab: http://pragmaticslab.com (Director)
LinkedIn: http://cl.linkedin.com/in/plegerm

## Personal

Name: Paul Leger
Hometown: Coquimbo, Chile
Nationality: Chilean

## 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 **CO**mputing **RE**search 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**.

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 2026*. Athens, Greece. **SCOPUS. Rank National-France (CORE ranking)**.

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 (ISPDC)*. 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://pragmaticslab.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.