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Valderi Leithardt

Professor Auxiliar (com Agregação)

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Department of Information Science and Technology (ISTA)



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Curriculum

Assistant Professor with full-time aggregation and exclusive dedication, and integrated researcher at ISTAR - Iscte University Institute of Lisbon, Portugal. Senior IEEE Member. Has experience in the field of Computer Science, with emphasis on algorithms and distributed systems, mainly researching in the following scenarios: Internet of Things, Communication Protocols, Intelligent Systems and Data Privacy.

Research Interests

Distributed Systems
Intelligent Systems
Data Privacy

Academic Qualifications

University/Institution	Type	Degree	Period
ISCTE-Instituto Universitario de Lisboa	Aggregation	Ciências e Tecnologias da Informação	2026
Universidad de Salamanca	Post-Doc	Ingenería Informática	2021
Universidade de Coimbra	Post-Doc	Engenharia Informática	2019
Universidade Federal do Rio Grande do Sul	PhD	Ciência da Computação	2015
Pontifícia Universidade Católica do Rio Grande do Sul	M.Sc.	Ciência da Computação	2008
Universidade Federal do Rio Grande do Sul	Post-graduation	Redes de Computadores e Sistemas Distribuídos	2004
Centro de Ensino Superior de Foz do Iguaçu	Licenciate	Tecnologia em Processamento de Dados	2002

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord
2026/2027	2º	Information Systems Security	Bachelor Degree in Computer Science and Business Management;	Yes
2026/2027	2º	Secure Software Development	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2026/2027	2º	Security and Cryptography in Communication Networks	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2026/2027	1º	Networks and Information Systems Security	Master Degree in Telecommunications and Computer Engineering; Master Degree in Computer Engineering;	Yes
2026/2027	1º	Master Dissertation in Computer Science and Business Management	Master Degree in Computer Science and Business Management;	Yes
2026/2027	1º	Data Privacy	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2025/2026	2º	Information Systems Security	Bachelor Degree in Computer Science and Business Management;	Yes
2025/2026	2º	Secure Software Development		Yes
2025/2026	2º	Security and Cryptography in Communication Networks	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2025/2026	1º	Networks and Information Systems Security	Master Degree in Telecommunications and Computer Engineering; Master Degree in Computer Engineering;	Yes

2025/2026	1º	Master Dissertation in Computer Science and Business Management	Master Degree in Computer Science and Business Management;	Yes
2025/2026	1º	Fundamentals of Cybersecurity and Resilience Management		Yes
2025/2026	1º	Data Privacy	Institutional Degree in Escola de Tecnologias e Arquitetura;	Yes
2024/2025	2º	Information Systems Security	Bachelor Degree in Computer Science and Business Management (PL); Bachelor Degree in Computer Science and Business Management;	Yes
2024/2025	1º	Databases	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering; Bachelor Degree in Telecommunications and Computer Engineering;	No

Supervisions

• Post-doc Supervisions

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Anita Fernandes	An Approach to Home Environment Monitoring of People with Disabilities Through AIoT	English	Universidade de Salamanca, Espanha	2024

• Ph.D. Thesis

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Daniel Pesqueira Morgado	Artificial Intelligence on Automating Cryptography Algorithms Decision Making	English	Developing	Iscte
2	Oscar Campos Neto	Governança da Segurança da Informação e Maturidade Organizacional: Um modelo de avaliação inteligente baseado em Data Science e Frameworks internacionais.	Portuguese	Developing	Iscte
3	Dinis Santos	Efficient and Scalable Hardware Realization of Multi-Layer Cryptographic Architecture in Advanced CMOS Nano-Technologies	English	Developing	Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa

4	Darlan Noetzold	Adaptive AI Middleware for Data Privacy and Quantum Cryptography in Smart Environments	English	Developing	Universidad de Salamanca, España
5	Alex Rodrigo Moises Costa Wanderley	Participatory Method for Smart and Sustainable City Solutions	Spanish/Castilian	Developing	Universidad de Salamanca, Espanha
6	Roberto Martín Esteban	Development of data and communications protocols in intelligent systems	Spanish/Castilian	Developing	Universidade de Salamanca, Espanha
7	Rogério Pereira dos Santos	Real-Time Machine Learning Model for Digital Agriculture	Portuguese	Delivered	Universidade Lusófona de Lisboa
8	Lidia Rozas Izquierdo	Energy optimization system in buildings through predictive models	Spanish/Castilian	Developing	Universidad de Salamanca
9	Cesar Augusto Guerreiro Mateus	Modelo De Machine Learning, para Predecir el Clima en Micro-Zonas	Spanish/Castilian	Developing	Universidad de Salamanca

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Bernardo Luís da Silva Pinto Coelho	Intelligent and Secure Framework Specification for Health	--	Developing	Iscte
2	Rafael Alexandre Abundância Rocha	Design and implementation of a transceiver using TCH Codes	--	Developing	Iscte
3	Mariana do Carmo Barata Gonçalves	Post-Quantum Cryptography in Automotive Context	English	Developing	Iscte
4	Hénio do Rosário de Pina	Digital Transformation of Tourism in Cape Verde. A Case Study	--	Developing	Iscte
5	Sérgio Roberto Mendonça Wanderley Filho	Privacy and Data Security in the Quantum Era: A Comparative Evaluation between Classical and Post-Quantum Cryptography	Portuguese	Developing	Iscte
6	João Pedro Leal Costa	AI-Driven Encryption Selection in a Container-Based Network Prototype	--	Developing	Iscte
7	Bernardo Pinto Assunção	A Dynamic Cryptographic Approach for Secure IoT Environments.	English	Developing	Iscte
8	Miguel Cláudio Diaz Gonçalves	Post-Quantum Cryptography the Future of Digital Security: Experimental Validation of a Next-Generation PKI	--	Developing	Iscte

9	António Victoriano Ngola Watika	Privacy and Information Security in Drone Operations: A Management Model for the Military Environment	--	Developing	Iscte
10	Leonor Pisco Pereira	Data Privacy and Security in the Context of Quantum Computing	--	Developing	Iscte
11	Guilherme de Brito Vasques	PRISEC IV: Context-Aware Encryption and Real-Time Threat Classification for IoT Security	--	Developing	Iscte

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Vasco Moreira Senra	Evaluating the Performance of Java Application Caches in Web and Database-Driven Applications	Portuguese	Universidade da Beira Interior	2026
2	Regiane Brasilina de Oliveira	A Risk Management Model for University Data Security and Privacy	Portuguese	Iscte	2026
3	Darlan Noetzold	ORACULUM: A MODEL FOR SELF-ADAPTIVE SYSTEM OPTIMIZATION IN SMART ENVIRONMENTS	English	Universidade do Rio dos Sinos (Unisinos), Brasil	2025
4	Humza Sohail	PRISEC-III-Cryptographic-Techniques-for-Enhanced-Security	English	Iscte	2025

• M.Sc. Final Projects

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Yoel Pérez Carrasco	Seat exchange system for transportation	English	Developing	Universidad de Salamanca

Total Citations

Web of Science®	1854
Scopus	2218

Publications

• **Scientific Journals**

- **Scientific journal paper**

1	Noetzold, D., Barbosa, J. L. V., Santana, J. F. P. & Leithardt, V. R. Q. (2026). Reinforcement learning-based adaptive quantum-safe cryptography for DN25-compliant smart environments. IEEE Access. 14, 62087-62104 - Times Cited Google Scholar: 2
2	Noetzold, D., Leithardt, V. R. Q., Paz Santana, J F. de. & Barbosa, J. L. V. (2026). Oraculum: A model for self-adaptive system optimization in smart environments. Expert Systems with Applications. 315 - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
3	Carvalho, J. P. M., Stefenon, S. F., Leithardt, V. R. Q., Seman, L. O., Yow, K.-C. & Paz Santana, J. F. de. (2026). Input attention, squeeze and excitation, and spatial transformer of YOLO for fault detection using UAV. Ain Shams Engineering Journal. 17 (3) - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
4	Seman, L. O. , Buratto, W. G., Villarrubia Gonzalez, G., Leithardt, V. R. Q., Nied, A. & Stefenon, S. F. (2026). Differentiable neural search architecture with zero-cost metrics for insulator fault prediction. Results in Engineering. 29 - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
5	Noetzold, D., Leithardt, V. R. Q. & Barbosa, J. L. V. (2026). Self-adaptive systems in smart environments: Strategies, metrics, and challenges. Computer. 59 (5), 22-32 - Times Cited Google Scholar: 2
6	Humza Sohail, Noetzold, D. & Leithardt, V. R. Q. (2026). PRISEC III: Dynamic cryptographic adaptation for balancing performance and security . Journal of Internet Services and Applications. 17 (1), 174-191
7	Noetzold, D., Rossetto, A. G. de M., Barbosa, J. L. V. & Leithardt, V. R. Q. (2025). Investigation and optimization of StringDeduplication with custom heuristic in different versions of the JVM. IEEE Latin America Transactions. 23 (1), 43-49 - Times Cited Scopus: 1 - Times Cited Google Scholar: 2
8	Neto, E. G. V., Peixoto Jr., S. A., Leithardt, V. R. Q., Santana, J. F. P. & Anjos, J. C. S. dos. (2025). Adding data quality to federated learning performance improvement. IEEE Access. 13, 126623-126648 - Times Cited Web of Science®: 1 - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
9	Dos Santos, R. P. , Matos-Carvalho, J. & Leithardt, V. (2025). Deep learning in time series forecasting with transformer models and RNNs. PeerJ Computer Science. 11 - Times Cited Web of Science®: 6 - Times Cited Scopus: 11 - Times Cited Google Scholar: 17
10	Stefenon, S. F., Seman, L. O., Yamaguchi, C. K., Coelho, L. dos S., Mariani, V. C., Matos-Carvalho, J. P....Leithardt, V. R. Q. (2025). Neural hierarchical interpolation time series for reservoir level multi-horizon forecasting in hydroelectric power plants. IEEE Access. 13, 54853-54865 - Times Cited Web of Science®: 19 - Times Cited Scopus: 21 - Times Cited Google Scholar: 21

11	<p>Rossetto, A. G. de M., Noetzold, D., Silva, L. A. & Valderi Leithardt (2024). Enhancing monitoring performance: A microservices approach to monitoring with spyware techniques and prediction models. <i>Sensors</i>. 24 (13)</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 4 - Times Cited Scopus: 2 - Times Cited Google Scholar: 12
12	<p>Stefenon, S. F., Seman, L. O., Klaar, A. C. R., García Ovejero, R. & Valderi Leithardt (2024). Hypertuned-YOLO for interpretable distribution power grid fault location based on EigenCAM. <i>Ain Shams Engineering Journal</i>. 15 (6)</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 38 - Times Cited Scopus: 44 - Times Cited Google Scholar: 61
13	<p>Fernandes, A. M. R., Valderi Leithardt & Santana, J. F. P. (2024). Novelty detection algorithms to help identify abnormal activities in the daily lives of elderly people. <i>IEEE Latin America Transactions</i>. 22 (3), 195-203</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 3 - Times Cited Scopus: 7 - Times Cited Google Scholar: 8
14	<p>Alencar, A. L., Lopes, M. D., Fernandes, A. M. da R., Anjos, J. C. S. dos., De Paz Santana, J. F. & Valderi Leithardt (2024). Detection of forged images using a combination of passive methods based on neural networks. <i>Future Internet</i>. 16 (3)</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 5 - Times Cited Scopus: 8 - Times Cited Google Scholar: 8
15	<p>Noetzold, D., Rossetto, A. G. D. M., Leithardt, V. R. Q. & Costa, H. J. de M. (2024). Enhancing infrastructure observability: Machine learning for proactive monitoring and anomaly detection . <i>Journal of Internet Services and Applications</i>. 15 (1), 508-522</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 3 - Times Cited Scopus: 3 - Times Cited Google Scholar: 7
16	<p>Soares, C. C. S., Silva, L. A., Fernandes, A., Villarrubia González, G., Leithardt, V. R. Q. & Parreira, W. D. (2024). Intelligent sensors in assistive systems for deaf people: A comprehensive review. <i>PeerJ Computer Science</i>. 10</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 2 - Times Cited Scopus: 2 - Times Cited Google Scholar: 4
17	<p>Noetzold, D., Rossetto, A. G. de M., Silva, L. A., Crocker, P. & Leithardt, V. R. Q. (2024). JVM optimization: An empirical analysis of JVM configurations for enhanced web application performance. <i>SoftwareX</i>. 28</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 4 - Times Cited Scopus: 2 - Times Cited Google Scholar: 2
18	<p>Luís Augusto Silva, Valderi Leithardt, Vivian Félix López Batista, Villarrubia Gonzalez, Gabriel & de Paz Santana, Juan Francisco (2023). Automated Road Damage Detection Using UAV Images and Deep Learning Techniques. <i>IEEE Access</i>.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 63 - Times Cited Scopus: 96 - Times Cited Google Scholar: 116
19	<p>Rubens Vicente De Liz Bomer, Zeferino, Cesar Albenes, Laio Oriel Seman & Valderi Leithardt (2023). Worst-Case Communication Time Analysis for On-Chip Networks with Finite Buffers. <i>IEEE Access</i>.</p> <ul style="list-style-type: none"> - Times Cited Scopus: 3 - Times Cited Google Scholar: 5

20	<p>Hussain, Faisal, Goncalves, Norberto Jorge, Alexandre, Daniel, Coelho, Paulo Jorge, Albuquerque, Carlos, Valderi Leithardt...Pires, Ivan Miguel (2023). A smartphone accelerometer data-driven approach to recognize activities of daily life: A comparative study. <i>Smart Health</i>. 30, 100432</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 2 - Times Cited Scopus: 5 - Times Cited Google Scholar: 7
21	<p>Morais, Rui, Crocker, Paul & Valderi Leithardt (2023). Nero: A Deterministic Leaderless Consensus Algorithm for DAG-Based Cryptocurrencies. <i>Algorithms</i>. 16 (1), 38</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 7 - Times Cited Scopus: 10 - Times Cited Google Scholar: 17
22	<p>Starke, Leandro, Hoppe, Aurélio Faustino, Sartori, Andreza, Stefenon, Stefano Frizzo, de Paz Santana, Juan Francisco & Valderi Leithardt (2023). Interference recommendation for the pump sizing process in progressive cavity pumps using graph neural networks. <i>Scientific Reports</i>. 13 (1)</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 14 - Times Cited Scopus: 13 - Times Cited Google Scholar: 20
23	<p>Corso, Marcelo Piccolotto, Stefenon, Stefano Frizzo, Singh, Gurmail, Matsuo, Marcos Vinicius, Perez, Fábio Luis & Valderi Leithardt (2023). Evaluation of visible contamination on power grid insulators using convolutional neural networks. <i>Electrical Engineering</i>.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 35 - Times Cited Scopus: 37 - Times Cited Google Scholar: 53
24	<p>Cezar Antônio Rigo, Edemar Morsch Filho, Laio Oriel Seman, Luís Loures & Valderi Leithardt (2023). Instance and Data Generation for the Offline Nanosatellite Task Scheduling Problem. <i>Data</i>.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 4 - Times Cited Scopus: 4 - Times Cited Google Scholar: 5
25	<p>Humberto Jorge De Moura Costa, Cristiano Andre Da Costa, Rodolfo Stoffel Antunes, Rodrigo Da Rosa Righi, Crocker, Paul & Valderi Leithardt (2023). ID-Care: a Model for Sharing Wide Healthcare Data. <i>IEEE Access</i>.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 4 - Times Cited Scopus: 6 - Times Cited Google Scholar: 8
26	<p>Anubis G. de Moraes Rossetto, Thauany C. Martins, Luís Augusto Silva, Daiana R. F. Leithardt, Beatriz María Bermejo-Gil & Valderi Leithardt (2023). An analysis of the use of augmented reality and virtual reality as educational resources. <i>Computer Applications in Engineering Education</i>.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 17 - Times Cited Scopus: 32 - Times Cited Google Scholar: 54
27	<p>Felipe Viel, Renato Cotrim Maciel, Laio Oriel Seman, Zeferino, Cesar Albenes, Eduardo Augusto Bezerra & Valderi Leithardt (2023). Hyperspectral Image Classification: An Analysis Employing CNN, LSTM, Transformer, and Attention Mechanism. <i>IEEE Access</i>.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 54 - Times Cited Scopus: 62 - Times Cited Google Scholar: 74

28	<p>Carlos Luguesi, Eduardo Camponogara, Laio Oriel Seman, González, José Torreblanca & Valderi Leithardt (2023). Derivative-Free Optimization with Proxy Models for Oil Production Platforms Sharing a Subsea Gas Network. IEEE Access.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 7 - Times Cited Scopus: 8 - Times Cited Google Scholar: 10
29	<p>Frederico Ferlini, Felipe Viel, Laio Oriel Seman, Hector Pettenghi, Eduardo Augusto Bezerra & Valderi Leithardt (2023). A Methodology for Accelerating FPGA Fault Injection Campaign Using ICAP. Electronics.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 9 - Times Cited Scopus: 12 - Times Cited Google Scholar: 17
30	<p>Westarb, Gustavo, Stefenon, Stefano Frizzo, Hoppe, Aurélio Faustino, Sartori, Andreza, Klaar, Anne Carolina Rodrigues & Valderi Leithardt (2023). Complex graph neural networks for medication interaction verification. Journal of Intelligent and Fuzzy Systems. 1-13</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 12 - Times Cited Scopus: 11 - Times Cited Google Scholar: 17
31	<p>Rafael Silfarney Alves Araújo, Jéssica Cristina Tironi, Wemerson Delcio Parreira, Renata Coelho Borges, de Paz Santana, Juan Francisco & Valderi Leithardt (2023). Analysis of Adaptive Algorithms Based on Least Mean Square Applied to Hand Tremor Suppression Control. Applied Sciences.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 9 - Times Cited Scopus: 10 - Times Cited Google Scholar: 13
32	<p>Fernanda C. Orlandi, Julio C. S. dos Anjos, de Paz Santana, Juan Francisco, Valderi Leithardt & Claudio F. R. Geyer (2023). Entropy to mitigate non-IID data problem on Federated Learning for the Edge Intelligence environment. IEEE Access.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 27 - Times Cited Scopus: 38 - Times Cited Google Scholar: 45
33	<p>Joelton Cezar Vieira, Sartori, Andreza, Stefenon, Stefano Frizzo, Perez, Fábio Luis, Gabriel Schneider de Jesus & Valderi Leithardt (2022). Low-Cost CNN for Automatic Violence Recognition on Embedded System. IEEE Access. 10, 25190-25202</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 33 - Times Cited Scopus: 58 - Times Cited Google Scholar: 83
34	<p>Stefenon, Stefano Frizzo, Rafael Bruns, Sartori, Andreza, Luiz Henrique Meyer, Ovejero, Raúl García & Valderi Leithardt (2022). Analysis of the Ultrasonic Signal in Polymeric Contaminated Insulators Through Ensemble Learning Methods. IEEE Access. 10, 33980-33991</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 37 - Times Cited Scopus: 41 - Times Cited Google Scholar: 58
35	<p>Nathielle Waldrigues Branco, Mariana Santos Matos Cavalca, Stefenon, Stefano Frizzo & Valderi Leithardt (2022). Wavelet LSTM for Fault Forecasting in Electrical Power Grids. Sensors. 22 (21), 8323</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 54 - Times Cited Scopus: 69 - Times Cited Google Scholar: 86

36	<p>Stefenon, Stefano Frizzo, Laio Oriel Seman, Bruno Antonio Pavan, Ovejero, Raúl García & Valderi Leithardt (2022). Optimal design of electrical power distribution grid spacers using finite element method. IET Generation, Transmission & Distribution. 16 (9), 1865-1876</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 27 - Times Cited Scopus: 30 - Times Cited Google Scholar: 45
37	<p>Vinicius Almeida Dos Santos, Wemerson Delcio Parreira, Da Rocha Fernandes, Anita Maria, Ovejero, Raúl García & Valderi Leithardt (2022). Improving Speaker Recognition in Environmental Noise With Adaptive Filter. IEEE Access. 10, 124523-124533</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 4 - Times Cited Scopus: 3 - Times Cited Google Scholar: 8
38	<p>Nemesio Fava Sopelsa Neto, Stefenon, Stefano Frizzo, Luiz Henrique Meyer, Ovejero, Raúl García & Valderi Leithardt (2022). Fault Prediction Based on Leakage Current in Contaminated Insulators Using Enhanced Time Series Forecasting Models. Sensors. 22 (16), 6121</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 58 - Times Cited Scopus: 64 - Times Cited Google Scholar: 97
39	<p>Humberto Jorge De Moura Costa, Cristiano Andre Da Costa, Rodrigo Da Rosa Righi, Rodolfo Stoffel Antunes, de Paz Santana, Juan Francisco & Valderi Leithardt (2022). A Fog and Blockchain Software Architecture for a Global Scale Vaccination Strategy. IEEE Access.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 18 - Times Cited Scopus: 24 - Times Cited Google Scholar: 31
40	<p>Anubis Graciela de Moraes Rossetto, Sega, Christofer L. & Valderi Leithardt (2022). An Architecture for Managing Data Privacy in Healthcare with Blockchain. Sensors.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 27 - Times Cited Scopus: 35 - Times Cited Google Scholar: 53
41	<p>Pereira, F., Crocker, Paul & Valderi Leithardt (2022). PADRES: Tool for PrivAcY, Data REgulation and Security. SoftwareX. 17, 100895-100895</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 36 - Times Cited Scopus: 39 - Times Cited Google Scholar: 53
42	<p>Kassiano J. Matteussi, Julio C. S. dos Anjos, Valderi Leithardt & Claudio F. R. Geyer (2022). Performance Evaluation Analysis of Spark Streaming Backpressure for Data-Intensive Pipelines. Sensors. 22 (13), 4756-4756</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 8 - Times Cited Scopus: 8 - Times Cited Google Scholar: 21
43	<p>Lima, Robson, Filippetto, Alessandro S., Heckler, Wesllei, Jorge Luis Victória Barbosa & Valderi Leithardt (2022). Towards ubiquitous requirements engineering through recommendations based on context histories. PeerJ Computer Science. 8, e794</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 6 - Times Cited Scopus: 6 - Times Cited Google Scholar: 13

44	<p>Luiz Henrique Salazar, Valderi Leithardt, Wemerson Delcio Parreira, Da Rocha Fernandes, Anita Maria, Jorge Luis Victória Barbosa & Sérgio Duarte Correia (2021). Application of Machine Learning Techniques to Predict a Patient's No-Show in the Healthcare Sector. <i>Future Internet</i>. 14 (1), 3</p> <p>- Times Cited Web of Science®: 29 - Times Cited Scopus: 41 - Times Cited Google Scholar: 62</p>
45	<p>Stefenon, Stefano Frizzo, Corso, Marcelo Picoletto, Nied, Ademir, Perez, Fábio Luis, KinChoong Yow, Villarrubia Gonzalez, Gabriel...Valderi Leithardt (2021). Classification of insulators using neural network based on computer vision. <i>IET Generation, Transmission & Distribution</i>. 16 (6), 1096-1107</p> <p>- Times Cited Web of Science®: 46 - Times Cited Scopus: 56 - Times Cited Google Scholar: 77</p>
46	<p>Francisco Garcia Encinas, Luís Augusto Silva, Mendes, André Sales, Villarrubia Gonzalez, Gabriel, Valderi Leithardt & de Paz Santana, Juan Francisco (2021). Singular Spectrum Analysis for Source Separation in Drone-Based Audio Recording. <i>IEEE Access</i>. 9, 43444-43457</p> <p>- Times Cited Web of Science®: 9 - Times Cited Scopus: 10 - Times Cited Google Scholar: 16</p>
47	<p>Fernandes, Filipe, Stefenon, Stefano Frizzo, Laio Oriel Seman, Nied, Ademir, Ferreira, Fernanda Cristina Silva, Subtil, Maria Cristina Mazzetti...Valderi Leithardt (2021). Long short-term memory stacking model to predict the number of cases and deaths caused by COVID-19. <i>Journal of Intelligent & Fuzzy Systems</i>. 1-14</p> <p>- Times Cited Web of Science®: 30 - Times Cited Scopus: 36 - Times Cited Google Scholar: 54</p>
48	<p>Mateos Matilla, Diego, Lozano Murciego, Álvaro, Jiménez-Bravo, Diego M., Mendes, André Sales & Valderi Leithardt (2021). Low-cost Edge Computing devices and novel user interfaces for monitoring pivot irrigation systems based on Internet of Things and LoRaWAN technologies. <i>Biosystems Engineering</i>.</p> <p>- Times Cited Web of Science®: 31 - Times Cited Scopus: 29 - Times Cited Google Scholar: 55</p>
49	<p>Leandro Pinto Fava, João Carlos Furtado, Gilson Augusto Helfer, Jorge Luis Victória Barbosa, Beko, Marko, Sérgio Duarte Correia...Valderi Leithardt (2021). A Multi-Start Algorithm for Solving the Capacitated Vehicle Routing Problem with Two-Dimensional Loading Constraints. <i>Symmetry</i>. 13 (9), 1697</p> <p>- Times Cited Web of Science®: 14 - Times Cited Scopus: 13 - Times Cited Google Scholar: 18</p>
50	<p>Gilson Augusto Helfer, Jorge Luis Victória Barbosa, Douglas Alves, Adilson Ben da Costa, Beko, Marko & Valderi Leithardt (2021). Multispectral Cameras and Machine Learning Integrated into Portable Devices as Clay Prediction Technology. <i>Journal of Sensor and Actuator Networks</i>. 10 (3), 40</p> <p>- Times Cited Web of Science®: 14 - Times Cited Scopus: 22 - Times Cited Google Scholar: 29</p>
51	<p>Corso, Marcelo Picoletto, Perez, Fábio Luis, Stefenon, Stefano Frizzo, Kin-Choong Yow, Ovejero, Raúl García & Valderi Leithardt (2021). Classification of Contaminated Insulators Using k-Nearest Neighbors Based on Computer Vision. <i>Computers</i>. 10 (9), 112</p> <p>- Times Cited Web of Science®: 56 - Times Cited Scopus: 64 - Times Cited Google Scholar: 87</p>

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• Books and Book Chapters

- Book author

1	Valderi Leithardt & Darlan Noetzold (2025). <i>Fundamentos, Avanços Recentes e Desafios sobre Algoritmos Criptográficos para a Era da Computação Quântica</i> . Chiinu. OmniScriptum S.R.L.
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- Publication in conference proceedings

1	<p>Darlan Noetzold, de Paz Santana, Juan Francisco, Valderi Leithardt & Jorge Luis Victória Barbosa (2026). DN25: An adaptive quantum cryptography protocol for secure and efficient communication. In <i>Workshop of Research in Science and Engineering.</i></p>
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18	<p>Alejano, F., Iglesia, D., Mateos, M., Rivero, A. & Valderi Leithardt (2023). Enhancing the interoperability of heterogeneous hardware in the Industry: A multi-agent system proposal. In Proceedings - 2023 6th Conference on Cloud and Internet of Things, CIoT 2023. (pp. 157-162). Lisbon, Portugal: IEEE.</p> <p>- Times Cited Google Scholar: 1</p>
19	<p>Santos, R., Valderi Leithardt & Beko, M. (2022). Analysis of MQTT-SN and LWM2M communication protocols for precision agriculture IoT devices. In Rocha A., Bordel B., Penalvo F.G., Goncalves R. (Ed.), Iberian Conference on Information Systems and Technologies, CISTI. Madrid: IEEE.</p> <p>- Times Cited Scopus: 7 - Times Cited Google Scholar: 11</p>

20	<p>Sega, C., Rossetto, A., Correia, S. & Valderi Leithardt (2022). An architectural proposal to protect the privacy of health data stored in the blockchain. In Rocha A., Bordel B., Penalvo F.G., Goncalves R. (Ed.), Iberian Conference on Information Systems and Technologies, CISTI. Madrid: IEEE.</p> <ul style="list-style-type: none"> - Times Cited Scopus: 3 - Times Cited Google Scholar: 4
21	<p>Correia, S., Perez, R., Matos-Carvalho, J. & Valderi Leithardt (2022). μJSON, a lightweight compression scheme for embedded GNSS data transmission on IoT nodes. In 5th Conference on Cloud and Internet of Things, CIoT 2022. (pp. 232-238). Marrakech, Morocco: IEEE.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 2 - Times Cited Scopus: 5 - Times Cited Google Scholar: 7
22	<p>Perez, R., Correia, S. & Valderi Leithardt (2021). Lossless compression scheme for efficient GNSS data transmission on IoT devices. In International Conference on Electrical, Computer, and Energy Technologies, ICECET 2021. Cape Town: IEEE.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 3 - Times Cited Scopus: 6 - Times Cited Google Scholar: 8
23	<p>Cardoso, M. H., Fernandes, A., Marin, G, Valderi Leithardt & Crocker, P. (2021). Comparison between different approaches to sentiment analysis in the context of the Portuguese language. In 2021 16th Iberian Conference on Information Systems and Technologies (CISTI): IEEE.</p> <ul style="list-style-type: none"> - Times Cited Scopus: 3 - Times Cited Google Scholar: 4
24	<p>Mateos Matilla, D., Diego Manuel Jiménez Bravo, Murciego, Á., Valderi Leithardt & Sales Mendes, A. (2020). Low cost center pivot irrigation monitoring systems based on IoT and LoRaWAN technologies. In 2020 IEEE International Workshop on Metrology for Agriculture and Forestry, MetroAgriFor 2020 - Proceedings. (pp. 262-267). Trento: IEEE.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 8 - Times Cited Scopus: 7 - Times Cited Google Scholar: 15
25	<p>Ochoa, I, Calbusch, L, Viecelli, K, de Paz, J, Valderi Leithardt & Zeferino, C. (2019). Privacy in the internet of things: A study to protect user's data in LPR systems using blockchain. In Ghorbani A., Ray I., Lashkari A.H., Zhang J., Lu R. (Ed.), 17th International Conference on Privacy, Security and Trust, PST 2019: Proceedings.: IEEE.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 5 - Times Cited Scopus: 13 - Times Cited Google Scholar: 19
26	<p>Viel, F., Silva, A., Valderi Leithardt & Zeferino, C. (2018). Internet of things: Concepts, architectures and technologies. In de Sales Guerra Tsuzuki M., , Junqueira F. (Ed.), 13th IEEE International Conference on Industry Applications, INDUSCON 2018 - Proceedings. (pp. 909-916). Sao Paulo, Brazil: IEEE.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 13 - Times Cited Scopus: 9 - Times Cited Google Scholar: 27
27	<p>Ochoa, I., Valderi Leithardt, Zeferino, Cesar Albenes & Silva, J. (2018). Data transmission performance analysis with smart grid protocol and cryptography algorithms. In de Sales Guerra Tsuzuki M., , Junqueira F., (Ed.), 13th IEEE International Conference on Industry Applications, INDUSCON 2018 - Proceedings. (pp. 482-486). São Paulo, Brazil: IEEE.</p> <ul style="list-style-type: none"> - Times Cited Web of Science®: 7 - Times Cited Scopus: 12 - Times Cited Google Scholar: 18

- Talk

1	Santos, Rogério P. dos, Beko, Marko & Valderi Leithardt (2024). Uma Solução Integrada de Machine Learning e Deep Learning para Melhorar a Eficiência da Irrigação de Precisão. Anais da XXIV Escola Regional de Alto Desempenho da Região Sul (ERAD-RS 2024).
2	Anita Fernandes, Valderi Leithardt & de Paz Santana, Juan Francisco (2024). An Approach to Home Environment Monitoring of People with Disabilities Through AioT. Anais da XXIV Escola Regional de Alto Desempenho da Região Sul (ERAD-RS 2024).
3	Santos, Rogério P. dos, Beko, Marko & Valderi Leithardt (2022). Modelo de Machine Learning em Tempo Real para Agricultura de Precisão. Anais da XXII Escola Regional de Alto Desempenho da Região Sul (ERAD-RS 2022). - Times Cited Google Scholar: 8

• Other Publications

- Non-peer-reviewed papers

1	Darlan Noetzold, Anubis Graciela de Moraes Rossetto & Valderi Leithardt (2025). A Spyware Platform and Predictive Models for Monitoring Computers. Elsevier SSRN.
2	Matos-Carvalho, João P., Stefenon, Stefano Frizzo, Valderi Leithardt & Kin-Choong Yow (2025). Time series forecasting based on optimized LLM for fault prediction in distribution power grid insulators. arXiv is a free distribution service and an open-access archive for nearly 2.4 million scholarly articles. - Times Cited Web of Science®: 4 - Times Cited Google Scholar: 14
3	Darlan Noetzold, Valderi Leithardt & Jorge Luis Victória Barbosa (2025). OntOraculum: A Semantic Ontology for Monitoring and Optimizing Performance Metrics in Smart Environments. SSRN Electronic Journal.
4	Stefenon, Stefano Frizzo, Matos-Carvalho, João P., Valderi Leithardt & Kin-Choong Yow (2025). CNN-TFT explained by SHAP with multi-head attention weights for time series forecasting. ARXIV. - Times Cited Google Scholar: 3
5	Rodrigo Craveiro Rodrigues, Pedro Miguel Calhau Mateus & Valderi Leithardt (2024). Prichain II: CloudGuardian Cloud Security Proposal with Blockchain. arxiv.org. - Times Cited Google Scholar: 1
6	Valderi Leithardt & Pedro Costa (2024). Priseq II -- A Comprehensive Model for IoT Security: Cryptographic Algorithms and Cloud Integration. arxiv.org/. - Times Cited Google Scholar: 3
7	Maykon Mota Pereira & Valderi Leithardt (2024). Fake News Management an Approach Using Collaborative Networks. SSRN Electronic Journal. - Times Cited Google Scholar: 1
8	Ernesto Gurgel Valente Neto, A. Peixoto, Valderi Leithardt, dos Anjos, Julio Cesar Santos & F. de Paz Santana (2024). A New Methodology for Edge Intelligence Data Quality Evaluation in Idd and Non-Iid Dataset in Federated Learning. SSRN - Elsevier.

- Other publications

1	Darlan Noetzold, Anubis Graciela de Moraes Rossetto, de Paz Santana, Juan Francisco & Valderi Leithardt (2026). A microservices-based endpoint monitoring platform with predictive NLP models for real-time security and hate-speech risk alerting. arXiv.
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- Paper in press

1	Darlan Noetzold, Valderi Leithardt, de Paz Santana, Juan Francisco & Jorge Luis Victória Barbosa (2026). End-to-end IoT sensor data simulation and predictive analysis: framework implementation and experimental evaluation. Scientific Reports.
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- Newspaper article

1	Regiane Brasilina de Oliveira & Valderi Leithardt (2025). Gestão integrada de riscos em ambientes universitários: cibersegurança, informação e privacidade de dados. Brazilian Journal of Development. 11 (07), 1-22
2	Carolina Tavares Duarte, Valderi Leithardt, Crocker, Paul, Jorge Luis Victória Barbosa, Daniel Hernandez de La Iglesia & Augusto Silva (2022). Uma Proposta de Solução Abordando o Contexto de Notícias Falsas em Países de Língua Portuguesa. RISTI - Revista Iberica de Sistemas e Tecnologias de Informacao. 2022 (E47), 199-211 - Times Cited Scopus: 1 - Times Cited Google Scholar: 1
3	Steffens Henrique, Maria da Rocha Fernandes, Lyra, Luis Scaranto Dazzi, Valderi Leithardt, Crocker...Correia (2021). Classifying Garments from Fashion-MNIST Dataset Through CNNs. Advances in Science, Technology and Engineering Systems Journal. 6 (1), 989-994 - Times Cited Web of Science®: 15 - Times Cited Google Scholar: 59
4	Valderi Leithardt & Luis Augusto Silva (2018). PRISER - Utilização de BLE para localização e notificação com base na privacidade de dados. ReABTIC. 2 (1) - Times Cited Web of Science®: 2

- Report

1	Luis Augusto Silva Zendron & Valderi Leithardt (2026). RoadDamageVision: Annotated Dataset of Road Damage Images.
2	Mendonça, Crocker & Valderi Leithardt (2026). Comparative Performance Dataset: Post-Quantum Cryptography Standards vs. Classical Cryptographic Baselines.
3	Mariana do Carmo Barata Gonçalves & Valderi Leithardt (2026). Post-Quantum Cryptography in Automotive Scenarios (V2X and V2V).
4	Darlan Noetzold & Valderi Leithardt (2026). Fundamentals, Recent Advances, and Challenges Regarding Cryptographic Algorithms for the Quantum Computing Era.
5	Darlan Noetzold, Jorge Luis Victória Barbosa, F. de Paz Santana & Valderi Leithardt (2026). A Comprehensive Dataset for Context-Aware Security Monitoring for Anomaly Detection.

Research Projects

Project Title	Role in Project	Partners	Period
Study of the design of a Smart Textile for its application in pet dogs.	Researcher	ISTAR-Iscte (RAISE), USAL - (Spain)	2025
Physically Unclonable Functions for Digital Secure Systems using hybrid technologies: printed-electronics and silicon CMOS	Researcher	ISTAR-Iscte (IS), UNINOVA - Leader (Portugal), IST-IUL - (Portugal), ISEL - (Portugal)	2025 - 2027

Academic Management Positions

Coordenador do 2º Ano (2025 - 2027)
Unit/Area: Master Degree in Computer Science and Business Management

Director (2025 - 2027)
Unit/Area: Master Degree in Computer Science and Business Management

Coordenador do 1º Ano (2025 - 2027)
Unit/Area: Master Degree in Computer Science and Business Management

Research Networks

Research Network Name	Representative Role	Period
Laboratory of Embedded and Distributed Systems (LEDS)	Colaborador	Since 2016
Expert Systems and Applications Lab	Colaborador	Since 2019
Research Center for Human-Centered Computing and Cognition - COPELABS	Colaborador	Since 2020
Fondazione Bruno Kessler: FBK	Colaborador	2021 - 2025
Centre of Technology and Systems (CTS)	Colaborador	Since 2023
Advanced Center for Development of Intelligent Systems and Artificial Intelligence (CANDEIIA)	Colaborador	Since 2024
Advanced Research Group on Electrical Systems (GPASE)	Colaborador	Since 2025
Research Group on Intelligent Environments (GPAI)	Colaborador	Since 2025

Professional Associations

IEEE (Since 2011)

Brazilian Computer Society. (Since 2003)

Organization/Coordination of Events

Type of Organization/Coordination	Event Title	Organizer	Year
Member of scientific event's organizing committee	41st IEEE Conference on Design of Circuits and Integrated Systems DCIS 2026	Técnico de Lisboa	2026
Member of scientific event committee	5th Workshop on Mobile Systems and Pervasive Computing	MobiSPC 2026	2026
Member of scientific event committee	CISTI'2026 - 21st Iberian Conference on Information Systems and Technologies	University of Santiago de Compostela, Spain	2026
Member of scientific event's organizing committee	6th International Conference on Disruptive Technologies Tech Ethics and Artificial Intelligence (DiTTEt 2026)	Instituto Politécnico de Viseu	2026
Member of scientific event committee	SBSeg 2026 - XXVI Brazilian Cybersecurity Symposium	SBC - Brazilian Computer Society	2026
Member of scientific event committee	MobiSPC 2025 - 4th Workshop on Mobile Systems and Pervasive Computing for Personalized Medicine	MobiSPC 2025 - 22nd International Conference on Future Networks and Communications (FNC)	2025
Member of scientific event's organizing committee	5th International Conference on Disruptive Technologies Tech Ethics and Artificial Intelligence (DiTTEt 2025)	Universidad de Salamanca	2025
Member of scientific event committee	The Fifth Intelligent Cybersecurity Conference (ICSC2025) - IEEE	University of Tampa	2025
Member of scientific event committee	SBSeg 2025 - XXV Brazilian Cybersecurity Symposium	SBC - Brazilian Computer Society	2025
Coordination of scientific event (with scientific committee) outside of ISCTE-IUL	WTTFC 2025 – 2nd Workshop on Technological Trends for Future Computing	ISEG Lisbon School of Economics and Management, University of Lisbon, Lisboa, Portugal.	2025
Member of scientific event's organizing committee	Organizador do WTTFC 2024 - 1º Workshop on Technological Trends for Future Computing https://cisti.eu/index.php/en/workshops/wttfc-2024		2024
Member of scientific event's organizing committee	Membro da organização da EAI GoodTechs 2023		2023

Member of scientific event's organizing committee	6th Conference on Cloud and Internet of Things - IEEE CioT TPC Chairs - https://ciot2022.dnac.org/organizing-committee/		2022 - 2023
Member of scientific event's organizing committee	Sessão INForum 2022 - Privacidade de dados, Segurança e Confiança (PSC)		2022
Member of scientific event committee	ICITS'22 - The 2022 International Conference on Information Technology & Systems, to be held at Tecnológico de Costa Rica, Campus de San Carlos, in one of the beautiful regions of Costa Rica, between the 9th and the 11th of February 2022. http://icits.me/index.php?option=com_content&view=article&id=3&Itemid=116&lang=en		2021 - 2022
Member of scientific event committee	Comite científico - INForum 2021		2021
Member of scientific event's organizing committee	Information Technology Solutions Using Sensors and Monitoring (Organized by Valderi Leithardt and Gabriel Villarrubia Gonzalez). https://sd2021.ipportalegre.pt/the-congress/topics-special-sessions/		2021
Member of scientific event's organizing committee	EAI GOODTECHS 2021 - 7th EAI International Conference on Smart Objects and Technologies for Social Good https://goodtechs.eai-conferences.org/2021/organizing-committee/		2020 - 2022
Member of scientific event's organizing committee	DiTTEt 2021 Disruptive Technologies Benjamín Sahelices -University of Valladolid (Spain) Valderi Reis Quietinho Leithardt Instituto Politécnico de Portalegre (Portugal) Javier Bajo Pérez Polytechnic University of Madrid (Spain)		2020 - 2021

Scientific Editing/Reviewing Activities

Type of Activity	Journal Title	ISSN/Quartile	Period	Language
Member of scientific journal editing staff	JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING	1868-5137 / Q1	Since 2023	English
Member of scientific journal editing staff	Cybernetics and Systems	0196-9722 / Q2	Since 2022	English
Member of scientific journal editing staff	IEEE Transactions on Automation Science and Engineering	1545-5955 / Q1 (T10)	2022 - 2023	English
Member of scientific journal editing staff	CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE	1532-0634 / Q1	Since 2022	English
Member of scientific journal editing staff	Information Security Journal	1939-3547 / Q2	Since 2022	English
Member of scientific journal editing staff	IEEE Internet of Things Journal	2327-4662 / Q1 (T5)	Since 2022	English

Member of scientific journal editing staff	IEEE Transactions on Network and Service Management	1932-4537 / Q1 (T10)	Since 2021	English
Member of scientific journal editing staff	IEEE Access	2169-3536 / Q1 (T10)	Since 2020	English
Member of scientific journal editing staff	IEEE Latin America Transactions	1548-0992 / Q2	Since 2020	Other Language

Products			
Product Type	Product Title	Detailed Description	Year
Prototype	DN26: Adaptive AI-Driven Post-Quantum Cryptographic Protocol for Dynamic Threat Mitigation	INPI - National Institute of Industrial Property (Computer Program Registration: BR512026002039-5). Directorate of patents, computer programs and circuit topographies.	2026
Prototype	DN26: Self-Adapting Quantum Cryptography Protocol with Artificial Intelligence	INPI - National Institute of Industrial Property (Computer Program Registration: BR512026000007-6). Directorate of patents, computer programs and circuit topographies.	2026
Software (Proprietary)	Adaptive AI Middleware for Data Privacy and Quantum Cryptography in Smart Environments	INPI - National Institute of Industrial Property (Computer Program Registration: BR512025002850-4). Directorate of patents, computer programs and circuit topographies.	2025
Software (Proprietary)	Deep learning based computer vision model for classification of power grid insulators	INPI - National Institute of Industrial Property (Computer Program Registration: BR512025000056-1). Directorate of patents, computer programs and circuit topographies.	2024