

# Rodrigo Moreira

Assistant Professor | Federal University of Viçosa (UFV) | Institute of Exacts and Technological Sciences  
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## Education

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| 2017 – 2021 | <b>PhD in Computer Science</b><br><b>Federal University of Uberlândia (UFU), Brazil</b><br><b>Advisor:</b> Professor Flávio de Oliveira Silva<br><b>Coadvisor:</b> Professor Rui Luís Andrade Aguiar<br><b>Title:</b> A Network Slicing Approach between Multiple Autonomous Systems<br><b>Research Areas:</b> Network Slicing, Future Network Architectures, Cloud and Edge Computing.                              |
| 2015 – 2017 | <b>MSc in Computer Science</b><br><b>Federal University of Uberlândia (UFU), Brazil</b><br><b>Advisor:</b> Professor Flávio de Oliveira Silva<br><b>Title:</b> A Flexible Orchestrator of Network and Computing Resources for Quality of Service (QoS) Enhancement in Multimedia Applications Based on Network Function Virtualization (NFV)<br><b>Research Areas:</b> Network Slicing, Multimedia, Future Internet. |
| 2011 – 2014 | <b>BS in Information Systems</b><br><b>Federal University of Viçosa (UFV), Brazil</b><br><b>Advisor:</b> Professor Adriana Zanella Martinhago<br><b>Title:</b> Development of a Management System to Support Decision-Making in Agribusiness in the Alto Paranaíba Region<br><b>Research Areas:</b> Software Development, Database, Information Visualization.                                                       |

## Academic Employment

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| 2019 – Current | <b>Federal University of Viçosa (UFV), Brazil</b><br><b>Adjunct Professor</b> in the Institute of Exacts and Technological Sciences |
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## Professional Employment

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| 2015 – 2017 | <b>Telecommunication Analyst</b> in Algar Telecom |
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## Research Interest

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Future Network, Artificial Intelligence, Cloud Computing, and Intelligent Networks.

## Awards and Honors

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| 2023 | Best Paper Award for “Designing and Evaluating a high-reliable and security-aware Identity and Access Management for Slicing Architectures” in Workshop on Experimental Research of the Future Internet (WPEIF 2023) - SBRC 2023.          |
| 2021 | 1st place - Hackathon Fortinet at Brazilian Symposium on Computer Networks and Distributed Systems ( <a href="https://sol.sbc.org.br/index.php/sbrc/about">https://sol.sbc.org.br/index.php/sbrc/about</a> ) - Brazilian Computer Society. |
| 2015 | 2nd place at the Paper Competition - Judicial Police, Associação dos Delegados de Polícia do Estado de São Paulo (ADPESP) and Instituto Brasileiro de Administração do Sistema Judiciário (IBRAJUS).                                       |

## Professional Affiliations & Activities

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- Brazilian Computer Society (SBC).
- Institute of Electrical and Electronics Engineers (IEEE).

### Reviewer for Journals

- Scientific Reports - Nature.
- Transactions on Network and Service Management - Wiley
- Engineering Applications of Artificial Intelligence - Elsevier.
- Computers in Biology and Medicine - Elsevier.
- IEEE Latin America Transactions.
- Computers and Electronics in Agriculture - Elsevier
- INFOCOMP Journal of Computer Science.
- The Journal of Supercomputing - Springer

### Organizing Committee

- Chair 6G Network Workshop (W6G 2025)
- Chair XVI Workshop on Information Systems (WSIS), 2025, Rio Paranaíba, Brazil.

### TPC Member for Conferences:

- International Conference on Green, Pervasive, and Cloud Computing (GPC 2019)
- Workshop on Experimental Research of the Future Internet WPEIF
- International Conference on Computer Vision Theory and Applications (VISAPP 2025)
- ENIAC in Brazilian Conference on Intelligent Systems (BRACIS 2020).
- Workshop of Information Systems - Federal University of Viçosa (2017-2024).
- Academic Integration Symposium - Federal University of Viçosa (2018, 2019, 2020, 2024).

## Teaching Experience

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### Federal University of Viçosa, Brazil

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| Undergraduate | <ul style="list-style-type: none"><li>• Computer Networks (90 hours)</li><li>• Programming in C (90 hours)</li><li>• Distributed and Parallel Systems (60 hours)</li><li>• Operating Systems (60 hours)</li><li>• Information Security (60 hours)</li></ul> |
| Fall Course   | <ul style="list-style-type: none"><li>• Introduction to the Internet of Things (60 hours)</li><li>• Special Topics in Intelligent Algorithms (60 hours)</li></ul>                                                                                           |

## Research Projects

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| 2013 – 2014 | Miguel Junior Cezana (PI), Rodrigo Moreira (Undergraduate Research) “Introduction to the Theory of Differentiable Curves” ( <i>Research Internship</i> ).                                                |
| 2015 – 2017 | <b>CNPq</b> – Flávio de Oliveira Silva (PI), Rodrigo Moreira (Researcher) “A2RCON: Arquitetura Adaptável para Redes CONvergentes” ( <i>R&amp;D Project</i> ).                                            |
| 2017 – 2020 | <b>EU/H2020</b> – Flávio de Oliveira Silva (PI), Rodrigo Moreira (Researcher) “5GINFIRE - Evolving FIRE into a 5G-Oriented Experimental Playground for Vertical industriess” ( <i>R&amp;D Project</i> ). |
| 2021 – 2021 | <b>RNP</b> – Flávio de Oliveira Silva (PI), Rodrigo Moreira (Researcher) “VINEVI: An Intelligent Architecture for Computing and Network Monitoring” ( <i>R&amp;D Project</i> ).                          |
| 2021 – 2023 | <b>CNPq</b> – Flávio de Oliveira Silva (PI), Rodrigo Moreira (RA) “BRASIL 6G” ( <i>R&amp;D Project</i> ).                                                                                                |
| 2022 – 2022 | <b>CNPq</b> – Flávio de Oliveira Silva (PI), Rodrigo Moreira (RA) “Intelligent Management of Autonomous Network Slices Across Multiple Domains (INTERCESSION)” ( <i>R&amp;D Project</i> ).               |
| 2021 – 2026 | <b>FAPESP</b> – Tereza Carvalho (PI), Rodrigo Moreira (RA) “Slicing Future Internet Infrastructures (SFI2)” ( <i>R&amp;D Project</i> ).                                                                  |

## Contracts, Grants, and Sponsored Research

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| 2025 – current | <b>PIBIC/FAPEMIG</b><br>Rodrigo Moreira (PI) “Federated Machine Learning in Combating Cyberattacks” ( <i>Research Internship</i> ).                                                                                |
| 2024 – current | <b>FAPEMIG Grant #APQ00923-24</b><br>Rodrigo Moreira (PI), Larissa F. Rodrigues Moreira (Researcher) “Enabling the Delivery of Cognitive Services in B5G Networks through Net-AI-APPs” ( <i>R&amp;D Project</i> ). |

Rodrigo Moreira (PI), Larissa F. Rodrigues Moreira (Researcher) “Project Além do Horizonte: Transforming Smuggled Electronic Equipment into Socially Impactful Technologies in Rio Paranaíba, Brazil”.

## Invited Talks and Tutorials

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- **Cloud Computing and Artificial Intelligence: Estimating Service Level Agreement Compliance in the Cloud. Short course.** Rodrigo Moreira and Larissa F. Rodrigues Moreira. Federal University of Viçosa, Brazil, October, 2020.

## Students Supervision

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### Current MSc Student

- Barbara Sales Fonseca (2024 – *on going*), Co-advising with Flávio de Oliveira Silva, University of Minho (UMinho), Portugal)

### Current Undergraduate Students

- Bruno Marques
- Victor Gonçalves Vieira

### Undergraduate Students

- Nádia Aparecida de Oliveira Silva – 12/05/2021
- Vinicius Hideyuki Ikehara – 29/07/2022
- Thalita Mendonca Antico – 29/07/2022
- Jhonatha Cordeiro Gomes – 07/12/2022
- Gleidson Vinicius Gomes Barbosa – 07/07/2023
- Daniel Pereira Monteiro – 08/12/2023
- Lucas Nardelli de Freitas Botelho Saar – 08/12/2023
- Henrique Thalison de Mattos Dias – 28/08/2024
- Marcus Vinicius Diniz dos Reis – 21/01/2025

## Publications

2026

1. Borges, R., Moreira, R., Melo, P. H., Moreira, L. & Silva, F. *TRACE: Traceroute-based Internet Route change Analysis with Ensemble Learning* in *Anais do XLIV Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos* (SBC, Praia do Forte/BA, 2026), 1331–1344. doi:10.5753/sbr.c.2026.18039.
2. Chaves, A. O. *et al.* NeuroScaler: Towards Energy-Optimal Autoscaling for Container-Based Services. arXiv: 2602.08191 [cs.NI] (2026).
3. De Deus Melo, T. L., Moreira, R., Moreira, L. & Backes, A. *Exploiting Test-Time Augmentation in Federated Learning for Brain Tumor MRI Classification* in *Proceedings of the 21st International Conference on Computer Vision Theory and Applications - Volume 1: VISAPP* (SciTePress, 2026), 148–156. doi:10.5220/0014391000004084.
4. Lima, Y., Moreira, R., Moreira, L., Carvalho, T. C. & Silva, F. *Evaluating Temporal and Structural Anomaly Detection Paradigms for DDoS Traffic* in *Anais do XVII Workshop de Pesquisa Experimental da Internet do Futuro* (SBC, Praia do Forte/BA, 2026), 9–16. doi:10.5753/wpeif.2026.22867.
5. Martins, E. T. *et al.* Asynchronous Probability Ensembling for Federated Disaster Detection. arXiv: 2604.14450 [cs.LG] (2026).
6. Moreira, L., Rodrigues, L. G., Moreira, R. & Backes, A. R. *PRISM: Perinuclear Ring-based Image Segmentation Method for Acute Lymphoblastic Leukemia Classification* in *Anais do XXVI Simpósio Brasileiro de Computação Aplicada à Saúde* (SBC, Ouro Preto/MG, 2026), 169–180. doi:10.5753/sbcas.2026.20537.
7. Moreira, R., Rodrigues Moreira, L. F., Carvalho, T. C. & de Oliveira Silva, F. *Noisy Neighbor Influence in the Data Plane of Beyond 5G Networks* in *2026 IEEE 23rd Consumer Communications & Networking Conference (CCNC)* (2026), 1–6. doi:10.1109/CCNC65079.2026.11366571.
8. Pedroso Pereira, D., Moreira, R. & Ferreira Rodrigues Moreira, L. *Forecasting Bitcoin Price With Neural and Statistical Models Across Different Time Granularities*. *IEEE Access* **13**, 180391–180401. doi:10.1109/ACCESS.2025.3622921 (2026).
9. Ribeiro, E. G., Moreira, R., Moreira, L. & Backes, A. *Generalizable Hyperparameter Optimization for Federated Learning on Non-IID Cancer Images* in *Proceedings of the 21st International Conference on Computer Vision Theory and Applications - Volume 2: VISAPP* (SciTePress, 2026), 485–492. doi:10.5220/0014495300004084.
10. Rodrigues Moreira, L. F., Moreira, R. & Ferreira Rodrigues, L. G. *Energy-Aware Ensemble Learning for Coffee Leaf Disease Classification* in *2026 IEEE 23rd Consumer Communications & Networking Conference (CCNC)* (2026), 1–6. doi:10.1109/CCNC65079.2026.11366365.
11. Rodrigues Moreira, L. F., Moreira, R. & Rodrigues, L. G. F. *Multi-view deep fusion for forensic dental age estimation in tomographic imaging*. *International Journal of Legal Medicine* **140**, 2225–2235. doi:10.1007/s00414-026-03749-6 (July 2026).

2025

1. Dos Reis, M. V. D., Moreira, R., Rodrigues Moreira, L. F. & de Oliveira Silva, F. *Estimating Application Performance in Container-Based Environments: A Cross-Domain Monitoring Approach* in *Advanced Information Networking and Applications* (ed Barolli, L.) (Springer Nature Switzerland, Cham, 2025), 89–100.

2. Ferreira Rodrigues, L. G., V. Gomes Barbosa, G., Moreira, R., Ferreira Rodrigues Moreira, L. & Backes, A. R. Medical Image Classification with Privacy: Centralized and Federated Learning Comparison. *Revista de Informática Teórica e Aplicada* **32**, 180–187. doi:10.22456/2175-2745.143478 (Feb. 2025).
3. Gonçalves, S. C. L., Moreira, R., Backes, A. R., Rodrigues Moreira, L. F. & Martinhago, A. Z. *Programming in Brazilian Higher Education and High School: A Systematic Literature Review in Proceedings of the 19th Latin American Conference on Learning Technologies (LACLO 2024)* (eds Lliteras, A. B., Sprock, A. S. & Agredo-Delgado, V.) (Springer Nature Singapore, Singapore, 2025), 287–303.
4. Moreira, R., Moreira, L. R. & de Oliveira Silva, F. *Performance Evaluation and Threat Mitigation in Large-scale 5G Core Deployment in Anais do XVI Workshop de Pesquisa Experimental da Internet do Futuro* (SBC, Natal/RN, 2025), 9–16. doi:10.5753/wpeif.2025.8716.
5. Moreira, R., Pasquini, R., Martins, J. S., Carvalho, T. C. & de Oliveira Silva, F. AI-driven orchestration at scale: Estimating service metrics on national-wide testbeds. *Future Generation Computer Systems* **174**, 107971. doi:https://doi.org/10.1016/j.future.2025.107971 (2025).
6. Moreira, R. *et al.* An intelligent native network slicing security architecture empowered by federated learning. *Future Generation Computer Systems* **163**, 107537. doi:https://doi.org/10.1016/j.future.2024.107537 (2025).
7. Oliveira, D. R., Moreira, R. & Silva, F. *ARCADE: A RAN Diagnosis Methodology in a Hybrid AI Environment for 6G Networks in Anais do V Workshop de Redes 6G* (SBC, Natal/RN, 2025), 41–48. doi:10.5753/w6g.2025.9532.
8. Rodrigues Moreira, L. F., Moreira, R., Travençolo, B. A. N. & Backes, A. R. Deep learning based image classification for embedded devices: A systematic review. *Neurocomputing* **623**, 129402. doi:doi.org/10.1016/j.neucom.2025.129402 (2025).
9. Silva, B., Moreira, L. R., de Oliveira Silva, F. & Moreira, R. *Optimizing Edge Gaming Slices through an Enhanced User Plane Function and Analytics in Beyond-5G Networks in Anais do XVI Workshop de Pesquisa Experimental da Internet do Futuro* (SBC, Natal/RN, 2025), 1–8. doi:10.5753/wpeif.2025.8714.
10. Souto de Lima, J. V., Marinho e Silva, R., Moreira, R. & Rodrigues Moreira, L. Preprocessing and Optimizer impact on Image-Based Autoimmune Disease Diagnosis. *Revista de Informática Teórica e Aplicada* **32**, 33–39. doi:10.22456/2175-2745.143545 (Feb. 2025).

2024

1. Alberti, A. M. *et al.* Disruptive 6G architecture: Software-centric, AI-driven, and digital market-based mobile networks. *Computer Networks* **252**, 110682. doi:https://doi.org/10.1016/j.comnet.2024.110682 (2024).
2. Barbosa, G., Rodrigues Moreira, L. F., de Sousa, P. M., Moreira, R. & Backes, A. *Optimization and Learning Rate Influence on Breast Cancer Image Classification in Proceedings of the 19th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications - Volume 3: VISAPP* (SciTePress, Rome, Italy, 2024), 792–799. doi:10.5220/0012507100003660.
3. Da Cunha, I. T., Rosa, E. C., Moreira, R. & de Oliveira Silva, F. *Highly Reliable Communication Using Multipath Slices with Alternating Transmission in Advanced Information Networking and Applications* (ed Barolli, L.) (Springer Nature Switzerland, Cham, 2024), 471–482.
4. De Souza Neto, N. V. *et al.* Evolved NWDAF Towards a Fully Distributed Artificial Intelligence in the 6G Network Architecture in *Workshop de Redes 6G (W6G)* (2024), 15–25.

5. Monteiro, D., Saar, L., Rodrigues Moreira, L. F. & Moreira, R. *On Enhancing Network Throughput using Reinforcement Learning in Sliced Testbeds* in *Anais do XV Workshop de Pesquisa Experimental da Internet do Futuro* (SBC, Niterói/RJ, 2024), 1–7. doi:10.5753/wpeif.2024.2094.
6. Moreira, R., Rodrigues Moreira, L. F., Carvalho, T. & Silva, F. *Resource Allocation Influence on Application Performance in Sliced Testbeds* in *Anais do XV Workshop de Pesquisa Experimental da Internet do Futuro* (SBC, Niterói/RJ, 2024), 8–14. doi:10.5753/wpeif.2024.2095.
7. Moreira, R., Rodrigues Moreira, L. F. & de Oliveira Silva, F. *Brazilian Selic Rate Forecasting with Deep Neural Networks*. *Computational Economics*. doi:10.1007/s10614-024-10597-2 (2024).
8. Moreira, R. & Silva, F. d. O. *Towards 6g network slicing*. *arXiv preprint arXiv:2412.11366* (2024).
9. Moreira, R., Silva, F. d. O., Carvalho, T. C. M. d. B. & Martins, J. S. *Intelligent Data-Driven Architectural Features Orchestration for Network Slicing*. *arXiv preprint arXiv:2401.06538* (2024).
10. Oliveira, J. M. *et al.* *Anomaly Detection Employing a 5G Core Data Analytics Framework* in *2024 IEEE 13th International Conference on Cloud Networking (CloudNet) (IEEE CloudNet 2024)* (Rio de Janeiro, Brazil, Nov. 2024), 8.61. doi:10.1109/CloudNet62863.2024.10815754.
11. Rodrigues Moreira, L. F., Moreira, R., de Oliveira Silva, F. & Backes, A. R. *Towards Cognitive Service Delivery on B5G through AIaaS Architecture* in *Anais do IV Workshop de Redes 6G* (SBC, Niterói/RJ, 2024), 1–8. doi:10.5753/w6g.2024.3304.
12. Rodrigues Moreira, L. F. *et al.* *Enabling Intelligence on edge through an Artificial Intelligence as a Service Architecture* in *2024 IEEE 13th International Conference on Cloud Networking (CloudNet) (IEEE CloudNet 2024)* (Rio de Janeiro, Brazil, Nov. 2024), 7.47. doi:10.1109/CloudNet62863.2024.10815777.
13. Rodrigues Moreira, L. F. *et al.* *Maximizing the Power of Cognitive Services with an AI-as-a-Service Architecture for Seamless Delivery* in *2024 IEEE 13th International Conference on Cloud Networking (CloudNet) (IEEE CloudNet 2024)* (Rio de Janeiro, Brazil, Nov. 2024), 7.94. doi:10.1109/CloudNet62863.2024.10815871.

2023

1. Brilhante, D. d. S. *et al.* *A Literature Survey on AI-Aided Beamforming and Beam Management for 5G and 6G Systems*. *Sensors* **23**. doi:10.3390/s23094359 (2023).
2. Cardoso, V., Rodrigues Moreira, L. F., Moreira, R. & Mari, J. F. *Improving Sickle Cell Disease Classification: A Fusion of Conventional Classifiers, Segmented Images, and Convolutional Neural Networks* in *Anais do XX Encontro Nacional de Inteligência Artificial e Computacional* (SBC, Belo Horizonte/MG, 2023).
3. Moreira, R., Carvalho, T. C. & de Oliveira Silva, F. *Designing and Evaluating a high-reliable and security-aware Identity and Access Management for Slicing Architectures* in *Anais do XIV Workshop de Pesquisa Experimental da Internet do Futuro* (2023), 1–6.
4. Moreira, R., Martins, J. S. B., Carvalho, T. C. M. B. & Silva, F. d. O. *On Enhancing Network Slicing Life-Cycle Through an AI-Native Orchestration Architecture* in *Advanced Information Networking and Applications* (ed Barolli, L.) (Springer International Publishing, Cham, 2023), 124–136.
5. Moreira, R., Rodrigues Moreira, L. F. & de Oliveira Silva, F. *An intelligent network monitoring approach for online classification of Darknet traffic*. *Computers and Electrical Engineering* **110**, 108852 (2023).
6. Rodrigues Moreira, L. F., Moreira, R., Travençolo, B. A. N. & Backes, A. R. *An Artificial Intelligence-as-a-Service Architecture for deep learning model embodiment on low-cost devices: A case study of COVID-19 diagnosis*. *Applied Soft Computing* **134**, 110014. doi:doi.org/10.1016/j.asoc.2023.110014 (2023).

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|      | <ol style="list-style-type: none"> <li>7. Vinhal, L., Moreira, R. &amp; Silva, F. D. O. <i>A Comparative Analysis of Machine Learning Techniques for Enhanced Resource Management in Multi-Access Edge Computing in 2023 IEEE 9th World Forum on Internet of Things (WF-IoT)</i> (2023), 1–8.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2022 | <ol style="list-style-type: none"> <li>1. Antico, T., Rodrigues Moreira, L. F. &amp; Moreira, R. <i>Evaluating the Potential of Federated Learning for Maize Leaf Disease Prediction in Anais do XIX Encontro Nacional de Inteligência Artificial e Computacional (SBC, Campinas/SP, 2022)</i>, 282–293. doi:10.5753/eniac.2022.227293.</li> <li>2. Moreira, R., da Cunha, H. G. V. O., Rodrigues Moreira, L. F. &amp; Silva, F. d. O. <i>VINEVI: A Virtualized Network Vision Architecture for Smart Monitoring of Heterogeneous Applications and Infrastructures in Advanced Information Networking and Applications</i> (eds Barolli, L., Hussain, F. &amp; Enokido, T.) (Springer International Publishing, Cham, 2022), 529–541.</li> <li>3. Moreira, R., de Oliveira Silva, F. &amp; Aguiar, R. L. A. <i>Uma Abordagem de Fatiamento de Rede entre Múltiplos Sistemas Autônomos in Simpósio Brasileiro de Redes de Computadores e Sistemas Distribuídos (SBRC)</i> (2022), 129–136.</li> <li>4. Moreira, R., Rodrigues Moreira, L. F., Munhoz, P. L. A., Lopes, E. A. &amp; Ruas, R. A. A. <i>AgroLens: A low-cost and green-friendly Smart Farm Architecture to support real-time leaf disease diagnostics. Internet of Things</i> <b>19</b>, 100570. doi:doi.org/10.1016/j.iot.2022.100570 (2022).</li> <li>5. Oliveira, D. R. C., Moreira, R., Rosa, P. F. &amp; de Oliveira Silva, F. <i>6G Architecture Design: Evolution or Disruption? in Workshop de Redes 6G (W6G)</i> (2022), 25–30.</li> </ol>                                                                                                                                                                                              |
| 2021 | <ol style="list-style-type: none"> <li>1. Da Cunha, H. G. V. O., Moreira, R. &amp; de Oliveira Silva, F. <i>A Comparative Study Between Containerization and Full-Virtualization of Virtualized Everything Functions in Edge Computing in Advanced Information Networking and Applications</i> (eds Barolli, L., Woungang, I. &amp; Enokido, T.) (Springer International Publishing, Cham, 2021), 771–782.</li> <li>2. Da Cunha, H. G. V. O., Moreira, R. &amp; de Oliveira Silva, F. <i>Uma Arquitetura para Gerenciamento e Pesquisa Experimental de Funções Virtualizadas para Computação em Borda in Anais do XII Workshop de Pesquisa Experimental da Internet do Futuro</i> (2021), 43–48.</li> <li>3. Moreira, R., Rodrigues, L. F., Rosa, P. F., Aguiar, R. L. &amp; Silva, F. d. O. <i>Enhancing dynamism in management and network slice establishment through deep learning in 2021 International Conference on Information Networking (ICOIN)</i> (2021), 321–326. doi:10.1109/ICOIN50884.2021.9333872.</li> <li>4. Moreira, R., Rosa, P. F., Aguiar, R. L. A. &amp; de Oliveira Silva, F. <i>Deploying Scalable and Stable XDP-Based Network Slices Through NASOR Framework for Low-Latency Applications in Advanced Information Networking and Applications</i> (eds Barolli, L., Woungang, I. &amp; Enokido, T.) (Springer International Publishing, Cham, 2021), 715–726.</li> <li>5. Silva, N., Moreira, R., Rodrigues, L. F. &amp; e Silva, R. M. <i>A Low-cost IoT Architecture to support Urban Mobility for Visually Impaired People in Anais do XII Workshop de Pesquisa Experimental da Internet do Futuro</i> (SBC, Uberlândia, 2021), 1–6. doi:10.5753/wpeif.2021.17193.</li> </ol> |
| 2020 | <ol style="list-style-type: none"> <li>1. Moreira, R., Rodrigues, L. F., Rosa, P. &amp; Silva, F. <i>Improving the network traffic classification using the Packet Vision approach in Anais do XVI Workshop de Visão Computacional</i> (SBC, Evento Online, 2020), 146–151. doi:10.5753/wvc.2020.13496.</li> <li>2. Moreira, R., Rodrigues, L. F., Rosa, P. F., Aguiar, R. L. &amp; Silva, F. d. O. <i>Packet Vision: a convolutional neural network approach for network traffic classification in 2020 33rd SIBGRAPI Conference on Graphics, Patterns and Images (SIBGRAPI)</i> (2020), 256–263. doi:10.1109/SIBGRAPI51738.2020.00042.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

3. Moreira, R., Rosa, P. F., Aguiar, R. L. A. & de Oliveira Silva, F. *Enabling Multi-domain and End-to-End Slice Orchestration for Virtualization Everything Functions (VxFs)* in *Advanced Information Networking and Applications* (eds Barolli, L., Amato, F., Moscato, F., Enokido, T. & Takizawa, M.) (Springer International Publishing, Cham, 2020), 830–844.
  4. Moreira, R., Silva, F. D. O., Rosa, P. F. & Aguiar, R. L. A smart network and compute-aware Orchestrator to enhance QoS on cloud-based multimedia services. *International Journal of Grid and Utility Computing* **11**, 49–61 (2020).
  5. Reis, R., Rodrigues, L. F., Reis, C. & Moreira, R. *Fronteira entre o uso da Eletrônica baseada em Hardware Livre e Robótica no Contexto Educacional* in *Anais do XXXI Simpósio Brasileiro de Informática na Educação* (SBC, Online, 2020), 1833–1842. doi:10.5753/cbie.sbie.2020.1833.
  6. Richards, V. M., Moreira, R. & de Oliveira Silva, F. *Enabling the Management and Orchestration of Virtual Networking Functions on the Edge*. in *CLOSER* (2020), 338–346.
- 2019 | 1. Silva, A. P. *et al.* 5GinFIRE: An end-to-end open5G vertical network function ecosystem. *Ad Hoc Networks* **93**, 101895. doi:<https://doi.org/10.1016/j.adhoc.2019.101895> (2019).
- 2018 | 1. Moreira, R., Silva, F., Frosi, P. & Aguiar, R. *A flexible network and compute-aware orchestrator to enhance QoS in NFV-based multimedia services* in *2018 IEEE 32nd International Conference on Advanced Information Networking and Applications (AINA)* (2018), 512–519.
2. Oliveira, C. T., Moreira, R., de Oliveira Silva, F., Miani, R. S. & Rosa, P. F. *Improving security on iot applications based on the fiware platform* in *2018 IEEE 32nd International Conference on Advanced Information Networking and Applications (AINA)* (2018), 686–693.