☑ jpedrofonseca@outlook.pt | 🞧 Jpfonseca | 🛅 jpedrofonseca

Experience _____

Instituto de Telecomunicações Aveiro



RESEARCH GRANT UNDER THE SCOPE OF THE H2020 5GROWTH PROJECT

October 2019-Present

- Design of the architecture for network slice orchestration across administrative domains under the 5Growth Project (funded by H2020)
- · Analysis of several Technical Reports and Specifications(3GPP, ETSI) to improve the Network Slicing platform used by the 5Growth Project under the ICT-17 Integration group
- Contributions the 5Growth Project project deliverables
 - D2.1: Initial design of 5G End-to-End Service Platform
 - D2.3: Final Design and Evaluation of the innovations of the 5G End-to-End Service Platform
 - D3.5: Final version of software implementation for the platform
 - D4.4: Final validation and verification report
- · Virtualization Infrastructure Management and Orchestration of several projects using Openstack, Docker, Proxmox, Juju Charms among other tools
- Contributions to ETSI OSM MANO release 9 & 10
- Monitoring of bachelor and master students for faster interactions with the OSM software stack.

Education

University of Minho, Aveiro and Porto



MAP Doctoral Program in Computer Science

Aveiro 2021-Present

Universidade de Aveiro



MSC IN COMPUTER AND TELEMATICS ENGINEERING

Aveiro 2021

• Master Thesis on 5G Interdomain Orchestration Mechanisms for Flexible Vertical Services Deployment, Grade 17/20.

Publications

ResearchGate

Dynamic Inter-domain Network Slicing for Verticals in the 5Growth Project ARTICLE

AUTHOR

João Fonseca et al. Dynamic Inter-domain Network Slicing for Verticals in the 5Growth Project, Accepted in the MOBISLICE IV workshop part of the IEEE NFV SDN 2021, doi:10.1109/NFV-SDN53031.2021.9665037

Multi-Domain Solutions for the Deployment of Private 5G Networks ARTICLE

CO-AUTHOR

X. Li et al., Multi-Domain Solutions for the Deployment of Private 5G Networks, in IEEE Access, vol. 9, pp. 106865-106884, 2021, doi: 10.1109/ACCESS.2021.3100120

Awards _____

Dec 2020 Outstanding Technical Contributor(Release 9), ETSI OSM Community



ETSI-OSM(Open Source MANO) LINK

CONTRIBUTOR



- Patch bugs present on the Open Source NFV Management and Orchestration (MANO) software stack
- Give support to the community through the official channels
- Patch bugs related to the CI/CD solution used by the project

Awesome Hacking Locations LINK

MANTAINEI

List of Awesome Hacking Locations, organised by Country and City, listing if it features power and wifi. Inspired by the Awesome Lists thing.

Presentations

Dynamic Inter-domain Network Slicing for Verticals in the 5Growth Project SLIDES PRESENTATION

NOV 2021, IEEE NFV-SDN 2021-4TH WORKSHOP ON MOBILITY SUPPORT IN SLICE-BASED NETWORK CONTROL FOR HETEROGENEOUS ENVIRONMENTS, ONLINE

Empowering verticals with autonomic service deployment by providing Interdomain support SLIDES

JAN 2020,28° SEMINÁRIO DA REDE TEMÁTICA DE COMUNICAÇÕES MÓVEIS, LISBOA

Workshop: "O sistema de versões GIT" SLIDES

OCT 2019, DIA EDUCATIVO DA ESTGA ÁGUEDA, AVEIRO

Lectured a workshop on GIT, the version control system.

Technologies .

Software Engineering

- Bugtracking and Development: Bugzilla, Gerrit, Jenkins and Git
- Deployment and Automation with Ansible, Juju Charms(Reactive and Native) and Bash scripting
- Virtualization: Docker and Docker-Compose, LXC
- Orchestration: Openstack and Proxmox
- Experience using ETEX for technical writing

Networking and Monitoring

- Network analysis: Wireshark, nmap, mtr, iperf
- DNS Security: Stubby

Linux/Unix

- Linux Distros: Antergos, Archlinux, Debian, Manjaro, Ubuntu, Fedora, CentOS
- · Display Servers: Xorg, Wayland
- Btrfs Enthusiast
- Analysis and Debugging: SystemD(journalctl,dmesg)



GLUA - Grupo de Linux da Universidade de Aveiro



2017-Present, Senior Member and former Coordinator

- · Providing Technical Support for the University of Aveiro community, in the University ICT department, on a weekly basis:
 - Installing incompatible drivers
 - Managing packages conflicts
 - Compiling specific Linux Kernels
 - Debugging issues with the WIFI configuration
 - others
- Maintainer for the GLUA's FOSS Public Mirror Service(glua.ua.pt/pub):
 - Configuration of nginx, rsync, etckeeper, and automatic notification email on service failure services
 - Developer of the Mirrors webpage(written in PHP)
- Human resources management within the GLUA's projects and initiatives responsible for the GLUA's projects.
- Organizer for workshops and talks promoting GLUA's team development on different subjects.

Erasmus Student Network - Aveiro



2016-PRESENT, BUDDY

• Fomenting the integration of Erasmus students within Aveiro city and local costumes

AAUAV- Associação Académica da Universidade de Aveiro



2017, COLABORATOR

• Organization of activities on different areas of action(cultural, educational, etc).

ENEI- Encontro Nacional de Estudantes de Informática



ORGANIZING COMMITTEE(2014,2016) AND AMBASSADOR(2018,2019)

- Member of the team responsible for the logistics of the event
- Member of the team responsible for the Streaming the event

Núcleo de Estudantes de Engenharia de Computadores e Telemática-NEECT



2014-2017, CORE MEMBER

- Organization of Workshops and Talks amongst other events
- Organization of ENEI 2014 and 2016 events