Eduardo Mucelli Rezende Oliveira

Summary

Ph.D. in Computer Science and Open Source enthusiast working with networks, large-scale data and in how the routinary characteristics of human mobility affect the network traffic demands. Besides, I am passionate about coding, e.g., to design and write APIs, web crawlers, and full-stack web applications.

Recent Education

Course	**Computer Science**	
Type	**Ph.D.**	
Period	**October 2011 — May 2015**	
Institution	**École Polytechnique**	France

Course	**Computer Science**	
Type	**Master's degree**	
Period	**March 2009 — July 2011**	
Institution	**Federal University of Minas Gerais**	Brazil
Avg.Score	**94%**	

Course	**Computer Science**	
Type	**Bachelor's degree**	
Period	**August 2004 — August 2008**	
Institution	**Pontifical Catholic University of Minas Gerais**	Brazil
Avg.Score	**85%**	

Recent Academic Experiences

Area	**Complex Networks, and Large-scale Data Analysis**
Project	**From Your Routine to Better Network Services**
Period	**October 2011 — December 2014**
Institution	**École Polytechnique**

Ph.D Thesis investigated aspects of the human mobility and its impact on the network data traffic, planning and deployment. I've analysed large-scale datasets from mobility and traffic demands generated by millions of users. Several parallelization techniques were used to summarise and assess huge amounts of data. Python multiprocessing, thread and R multicore libraries were largely employed. 5 conference papers were published and 3 journal papers are in submission with the outcomes of this Thesis.

Recent publications

Oliveira, Eduardo Mucelli Rezende and Carneiro Viana, Aline and Naveen, K. P. and Sarraute, Carlos., "Analysis and Modeling of Mobile Data Traffic in Mexico City", NetMob, April 2015, Mit Media Lab, Cambridge, MA, United States.

Oliveira, Eduardo Mucelli Rezende and Carneiro Viana, Aline and Naveen, K. P. and Sarraute, Carlos., "Measurement-driven mobile data traffic modeling in a large metropolitan area", IEEE Percom, March 2015, Saint Louis, United States.

Oliveira, Eduardo Mucelli Rezende and Viana, Aline Carneiro., "From Routine to Network Deployment for Data Offloading in Metropolitan Areas", IEEE SECON, June 2014, Singapore.

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Oliveira, Eduardo Mucelli Rezende and Viana, Aline Carneiro., "Routine-based Network Deployment", IEEE INFOCOM, Student workshop, April 2014, Toronto, Canada.

Recent Professional Experiences

Job Title	**Postdoctoral Researcher**
Period	**June 2015 – Nowadays**
Company	**Orange** Paris, France

Developing techniques for geolocalized Radio Engineering in order to improve the mobile network's KPIs.

Job Title	**Intern**
Period	**November 2010 — May 2011**
Company	**Telecom Italia Future Centre** Venice, Italy

Developed, in Python, code for a project called Future of Enterprises. The main objective was to improve the real-time interaction among employees.

Languages

Portuguese	**Native speaker**
English	**Fluent**
French	**Advanced**
Italian	**Advanced**

Skills

Language	**Python, Ruby, R, and Javascript**
Framework	**Ruby on Rails and jQuery**
VCS	**Subversion, Git, and Bazaar**
DB	**MySQL, and PostgreSQL**
OS	**Linux**
Others	**API development, Web crawling development, DBus**

Web Applications

Title	**Easy Bike**
Language	**Ruby, Python, and Javascript**
URL	**http://easy.bike**

This application finds the best cycling routes using bike-sharing systems in more than 270 cities distributed in 29 countries. It considers real-time information of how many bicycles are available closest to you and how many available bike stands are available in the stations close to the destination address. It then chooses the best stations and route for you. Besides, it provides city-specific domains such as paris.easy.bike, london.easy.bike, or ny.easy.bike, etc., to directly access the service in the respective cities.

Title	**Proconfie**
Language	**Ruby, Python, and R**
URL	**http://www.proconfie.com**

This application helps people to choose companies based on historical problems presented with other customers. It received Honorary Mention award from the Brazilian Ministry of Justice. Refer to Section awards to know more about it.

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Title	**CEP Aberto**
Language	**Ruby, Python, and Javascript**
URL	**http://www.cepaberto.com**

This collaborative application aims to publicly open the Brazilian Postal Code (CEP) data. It currently contains information of about 1 million CEPs. It provides an API for developers willing to use geolocalized Postal Code data and, for the end-users, the possibility to edit, add, fix, follow, etc, specific postal-coded-locations in order to improve the quality of the data.

Some Open Source Projects on Launchpad and Github

Title	**Twitter applet**
Language	**Python using OAuth** (refer to the code)

Twitter applet for Cairo-Dock with real-time personal tweet alert and many of the capabilities provided by Twitter's API.

Title	**WebSearch**
Language	**Ruby using Nokogiri** (refer to the code)

Metasearch applet for Cairo-Dock capable of retrieving text and image results from several sources, e.g., Google, Bing, Yahoo!, Youtube, and Twitter.

Title	**Repeat One Song**
Language	**Python** (refer to the code)

The Repeat One Song feature for Rhythmbox.

Title	**Translator**
Language	**Python using SGMLParser** (refer to the code)

Full-featured Google Translator-based translator applet for Cairo-Dock.

Awards

Title	**Honorary mention**
Issuer	**Brazilian Ministry of Justice**
Date	**May 2013**

Open Data Applications Contest. Lead developer of a Ruby on Rails application called Proconfie. Refer to the Section Web Applications for more details about Proconfie.

Title	**Silver Medal**
Issuer	**Pontifical Catholic University of Minas Gerais**
Date	**July 2008**

Second best overall score during the bachelor.

Title	**Honorary mention**
Issuer	**Pontifical Catholic University of Minas Gerais**
Date	**May 2007**

For the work "Game Theory in Decision Making in Wireless Sensor Networks" presented in the 15^{th} Sciences Seminar.

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