



Dynamic MixVoip

Chercheur en formation
doctorale

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- 10/2007 - 07/2010

Bachelor Diploma - Computer Science Faculty, 'Al. Ioan Cuza' University

- 19/09/2011 - 31/01/2012

Socrates-Erasmus exchange - Computer Science Faculty, 'University of Murcia'

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Master Degree Diploma(Computational Optimization Master) - Computer Science Faculty, 'Al. Ioan Cuza' University

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.Net Developer - Levi9 Global Sourcing



Principal subjects / occupational skills covered:

Genetic Algorithms, Nature-Inspired Algorithms for Optimization, Machine Learning, Data Mining, Neuronal Networks, Intelligent Data Analysis, Networks, Web Semantics, Object Oriented Programming, Bioinformatics, Databases.





**KEEP
CALM
AND
READ
BOOKS**



A collaboration between:



UNIVERSITÉ DU
LUXEMBOURG

and

MIXvoip



PROBLEM:

The solutions currently deployed by MixVoIP executed inside clouds, are monolithic and not natively designed for such environments. Because of the static nature of the operations carried by MixVoIP, there it is not allowed coping with highly dynamic evolutions of requests, load or stochastic events.



SOLUTION:

An algorithm based on a combination of evolutionary computing algorithms, exact methods, learning and anticipation techniques, resource allocation and load balancing methods. The implementation of the algorithm must improve the VoIP services provided by MixVoIP via a cloud-based solution.

EXPECTATIONS:

To attain an improvement in voice quality and energy efficiency with lower operation costs at infrastructure level.



○ WP1: Analysis of Particle Algorithms, Load Prediction

- the study of VoIP (Voice over IP);
- to provide several generic algorithms capable of predicting the load of a processor in response to incoming voice traffic;
- state of the art on particle algorithms for simulation and analysis of distribution laws along with a probabilistic model outline of the problem;
- the development of a generic framework for the numerical simulation of a particle algorithm, benchmarks and test cases for the different variants developed.





Have a restful evening!

