

Knowledge extraction from usage data of mobile devices with educational purposes

Dept. of Telematics Engineering, GIST

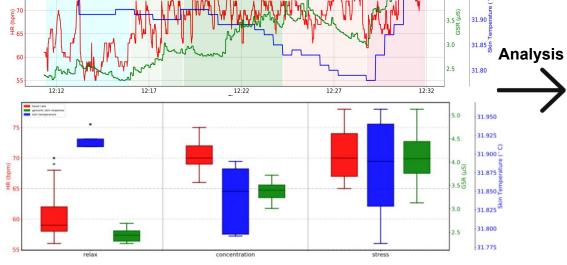
Author: Francisco de Arriba Pérez

Advisors: Manuel Caeiro Rodríguez, Juan Manuel Santos Gago

Wearables



Physiological signals



Research in laboratory and educational settings



Stress/Sleep detection

Otross/Orcop action					
userID	SVM	LWL	C4.5	IBK	Naive Bayes
001	94.3%	87.%	100%	98.0%	92.3%
002	99.7%	99.5%	99.0%	98.0%	96.8%
Mean	97.9%	91.1%	99.3%	98.6%	94.9%
std	2.10	7.74	0.78	0.51	3.03

NOVEL ARCHITECTURE FOR MULTIMEDIA HARDWARE ACCELERATION



AUTHOR: GHOFRANE EL HAJ AHMED

THESIS ADVISOR: FELIPE GIL CASTIÑEIRA ENRIQUE COSTA MONTENEGRO



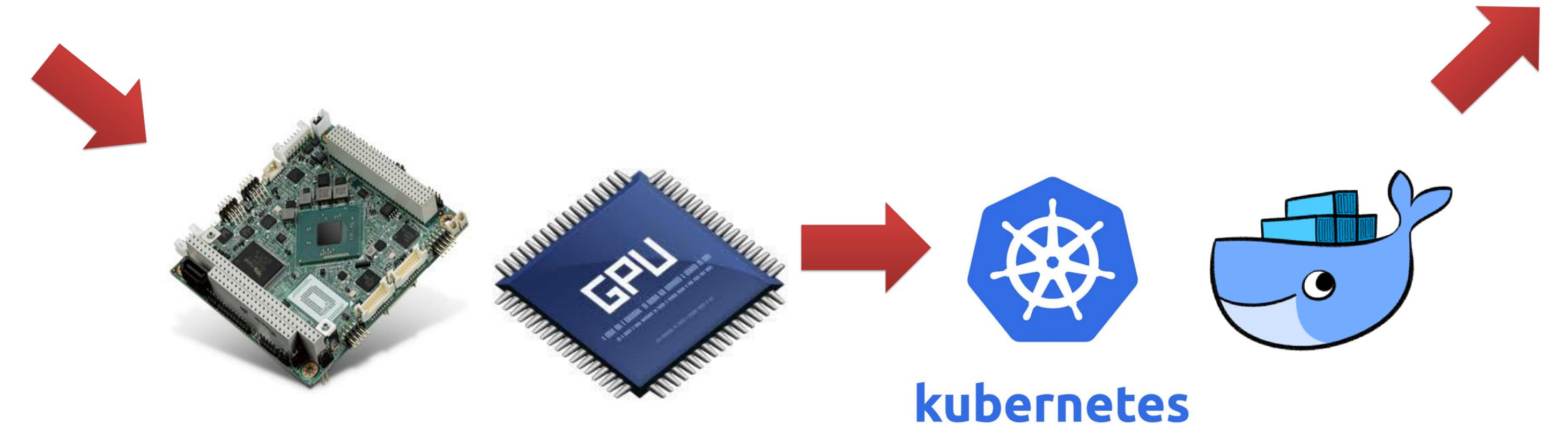
PhD Programme on Information and Communications Technology (Doc_TIC)

The technology related to the cloud computing, the GPUs and the container ecosystem has been evolving in the last years.



Design a new architecture of GPU manager and scheduler in cloud computing.



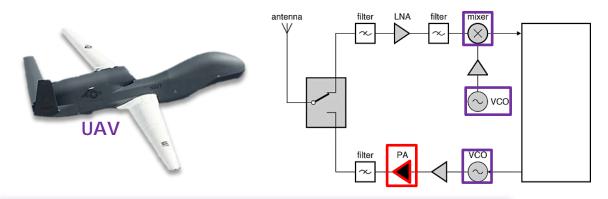


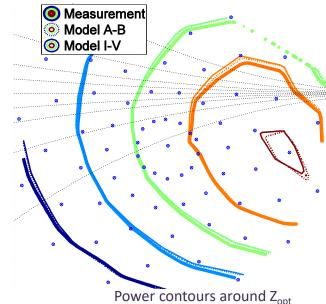
Test the GPU on the Embedded Board

Modeling the GPU task on Docker and Kubernetes platform.

Behavioural Modelling of Microwave Transistors for Wideband High Efficiency Power Amplifier Design

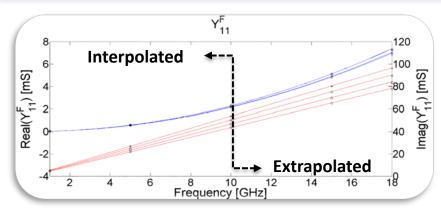
Motivation: Efficient Broadband PAs



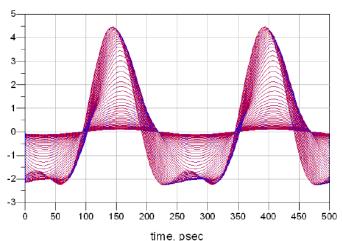


> Objectives:

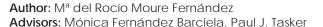
- Bandwith improvement of NL behavioural models
- Application design of effic. broadband PA



Y-parameters model



Vout. Behavioural and table-based model









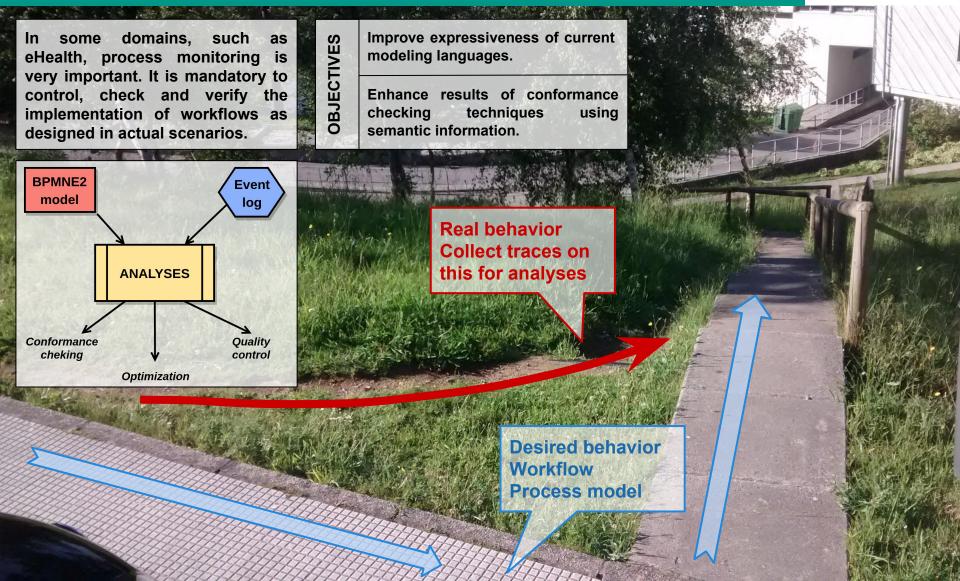


Contribution to development of telematic services for data analysis in technology area. Application to eHealth field.

Universida_{de}Vigo

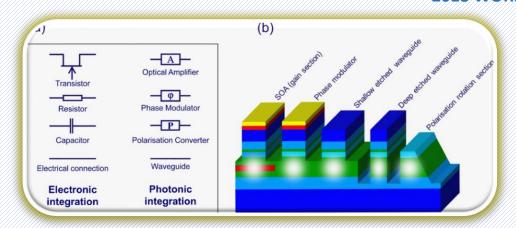
Author: Mateo Ramos Merino Thesis Advisors: Juan M. Santos Gago, Luis M. Álvarez Sabucedo Department of Telematic Engineering, University of Vigo

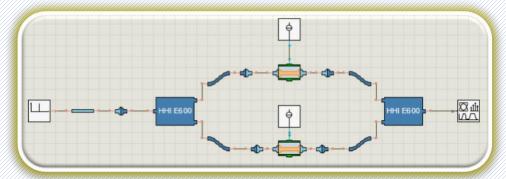
atlanTTic



DESIGN OF SYSTEMS FOR BREAKTHROUGH RADIO SYSTEMS

by David Álvarez Outerelo , Ana Vázquez Alejos and Francisco Díaz Otero
2018 WORKSHOP PhD STUDENT PROGRESS

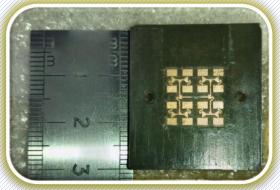


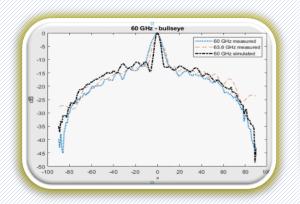


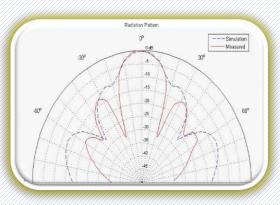






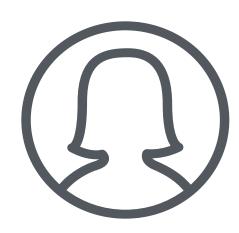






PRESENTATION ATTACK DETECTION ON FACE RECOGNITION SYSTEMS IN MOBILE DEVICES

Artur Costa-Pazo, Esteban Vazquez-Fernandez and José Luis Alba-Castro



Topic

Face Recognition

Presentation Attack Detection

Mobile devices

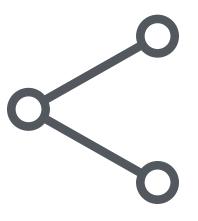


Achieved goals

1st-ranked face-PAD algorithm on **IJCB** Conference, Denver 2017.

We have written a chapter for the Handbook of Biometric Anti-Spoofing. Challenges of Face Presentation Attack Detection in Real Scenarios

Speaker at the **Machine Learning Workshop Galicia**, Santiago de
Compostela.



Reproducibility

A python package will be available on github.

Scores and source code will be available too.









ADVANCES IN ROBUST TECHNIQUES FOR THE IDENTIFICATION OF PEOPLE IN AUDIOVISUAL CONTENTS

Author: Eduardo Ramos Muguerza Advisors: José Luis Alba Castro, Laura Docío Fernández

BIOMETRIC SIGNATURE

age = 24

gender = male

race = caucasian name = Bob Dylan

POSE ESTIMATION





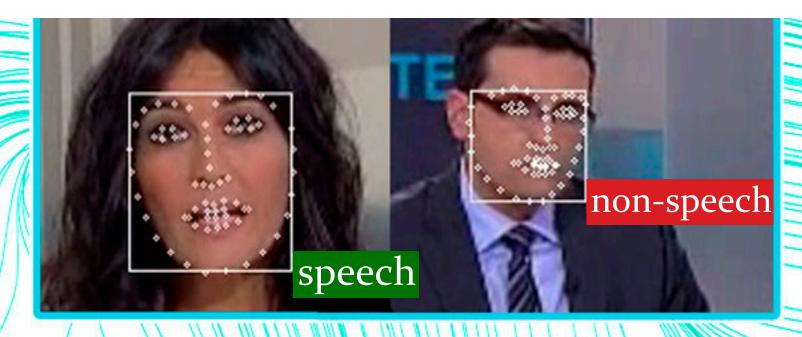


Characterization of people:
Study of efficient
classical and deep
learning algorithmic
techniques

Identification of transmitters and



SPEECH DETECTION. SPEAKER DIARIZATION



On-chip directly phase-modulated laser source for QKD applications

by Pablo Vilar Gómez and Francisco Díaz Otero 2018 WORKSHOP PhD STUDENT PROGRESS

