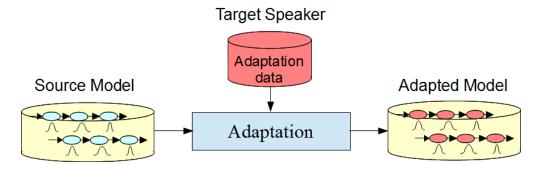
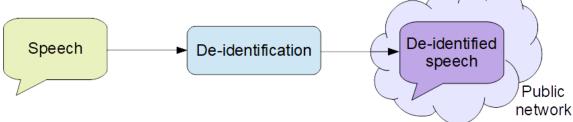
Voice Personalization

<u>HMM-based speech synthesis</u>: adaptation techniques to modify speaker identity.



Speaker De-Identification

<u>Privacy protection</u>: voice transformation techniques to hide speaker identity.









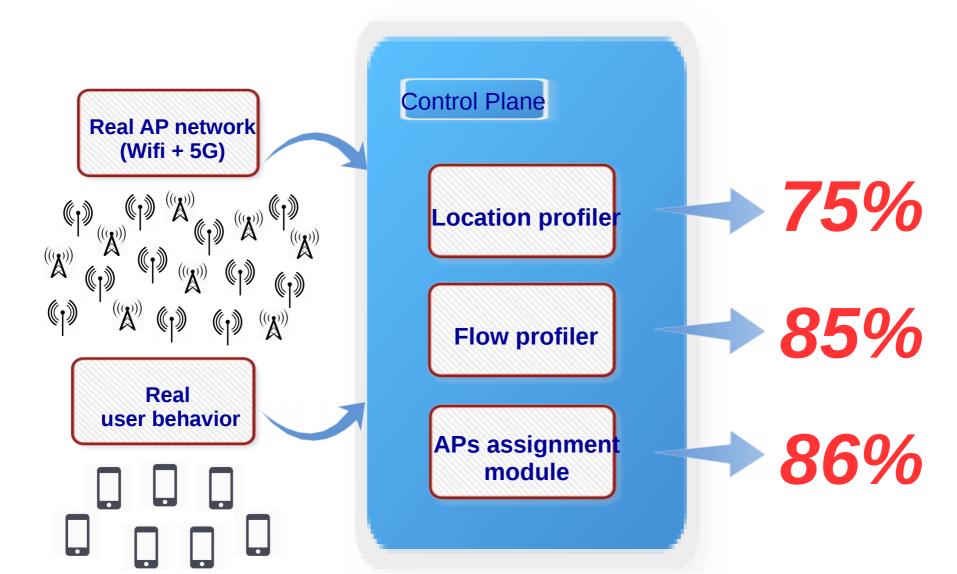




SDN-ORIENTED GLOBAL NETWORK

OPTIMIZATION ALGORITHM

Saber Mhiri, Cristina López Bravo, Francisco Javier González Castaño AtlantTIC, GTI Group University of vigo Universida_{de}Vigo



Homomorphic Lattice Cryptosystems for Secure Signal Processing

Workshop on Monitoring PhD Student Progress. June 14-15, 2018.

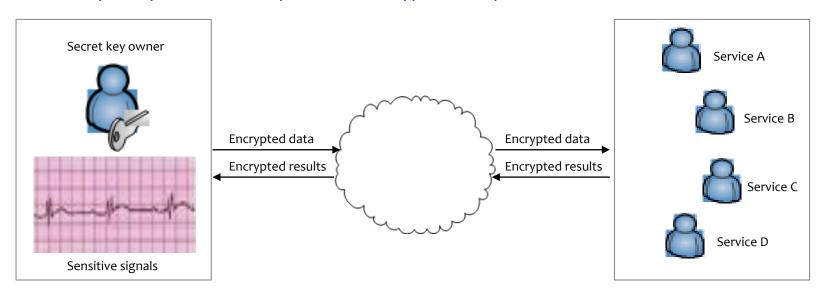
Alberto Pedrouzo-Ulloa, Advisors: Juan Ramón Troncoso-Pastoriza, Fernando Pérez-González {apedrouzo@gts.uvigo.es, juan.troncoso-pastoriza@epfl.ch, fperez@gts.uvigo.es}

Main objective

 Privacy protection when dealing with sensitive signals in untrustworthy environments through the use of SPED (Signal Processing in the Encrypted Domain)

Specific objectives

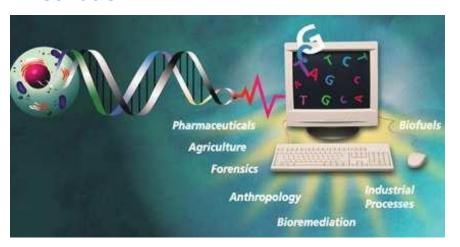
- Privacy protection when dealing with multidimensional signals
- Design of new primitives and protocols for encrypted signal processing
- Security analysis and development of encrypted compression schemes



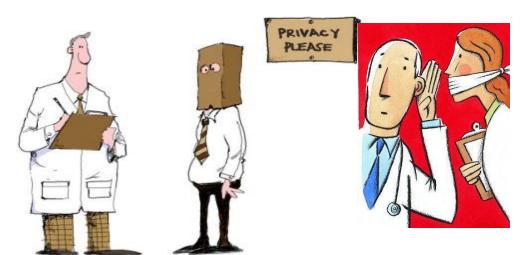
Secure Signal Processing for Genomic Privacy Protection

Mina Namazi

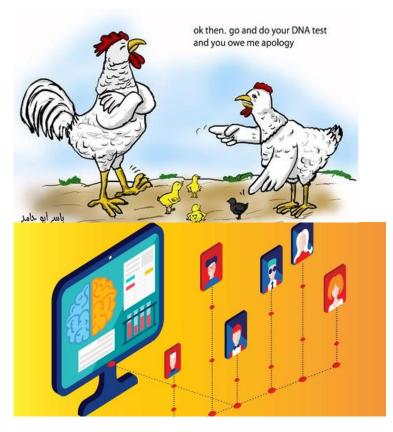
Motivation



Thesis Objectives



Results

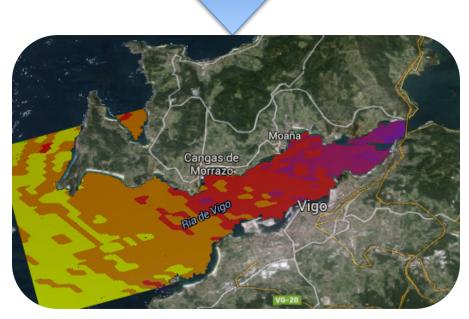




UNDERWATER NOISE MAPPING METHODOLOGIES FOR SHALLOW WATERS

Author: David Santos-Domínguez | Thesis advisor: Soledad Torres-Guijarro | Affiliation: Sonitum (TSC, Universidad de Vigo)

- **O1** Underwater noise measurement methodologies.
- **O2** Propagation Losses calculation using both experimental and analytic models.
- **O3** Study of underwater noise prediction software.
- **O4** Classification of the different noise sources available in Ría de Vigo.
- **O5** Noise map construction methodologies.
- O6 Construction of an underwater noise map of Ría de Vigo.



Ría de Vigo underwater noise map recreation

CONTRIBUTION TO Univ

Abel Fernández Nandín, supervised by Felipe Gil-Castiñeira

Information Technology Group (GTI)

DocTIC atlanTTic

Major Goals

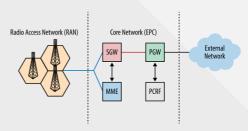
- \cdot Evaluate the traditional virtualization techniques and architectures
- \cdot Design new network architectures that help meet 5G requirements
- \cdot Measure the improvement between traditional and new approaches

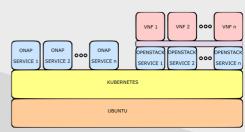
Current results

- · Virtualization of the eNodeB (RAN) and EPC
- · Review of the state of the art and setup of a testbed
- \cdot New proposal for the containerization of the ONAP services for VNF deployment

Future Work

- · Integration of lightweight virtualization into new containerized architectures in the context of Operator Core Networks
- · Definition and measurement of quantitative metrics that compare traditional and new approaches
- · Preparation of a journal publication about VNF containerizing





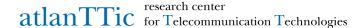
GENERATION OF KNOWLEDGE IN DYNAMIC FINANCIAL MARKETS WITH SUPERVISION

AUTHOR: Óscar Barba-Seara

ADVISORS: Milagros Fernández-Gavilanes, Javier González-Castaño

AFFILIATION: AtlanTTIC Research Center, University of Vigo







 Obtain a multi-context solution for short text classification in the financial area



- Test the results on real business context.
- Classify banking movements for personalized marketing according to the user profile & interests



Make a efficiency & scalable approach to an opportunity in PSD2 environment.



- Great amount of information available online.
- · Growth financial solutions and their information.

- Short texts have less features and higher irregularity than longer texts.
- Short text classification based on a SVM classifier combined with linguistic knowledge is used to learn and label financial short text samples.
- The proposed approach produces better classification accuracy results when lexica knowledge is used as a feature as well as the information related to the amount and date of the banking movement.
- Test on a manual annotated dataset with over 30,871 banking transaction descriptions.
 - Joint Project between GTI & Coinscrap Finance SL [9/2017 and 2/2018]









New Multibeam Processing Schemes for High Throughput Satellites

Tomás Ramírez Advsior: Carlos Mosquera

