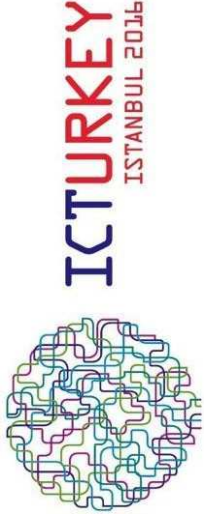


International Brokerage Event
Istanbul 30/11/2016



Faculty of Sciences of Sfax

Noureddine Loukil

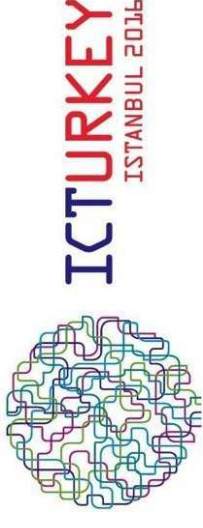
noureddine.loukil@gmail.com

noureddine.loukil@isimsf.rnu.tn

This presentation is for

- Workshop 1 Big Data
 - Workshop 3 Photonics and Micro-and-Nanoelectronics
 - Workshop 2 Robotics
 - Workshop 4 internet of Things
-

Description of the Organization



University Description

The Faculty of Sciences of Sfax (FSS) offers a multidisciplinary environment and houses six departments and a graduate school. With over 6,000 students, the Faculty of Sciences of Sfax is one of the major institutions of the University of Sfax (US).

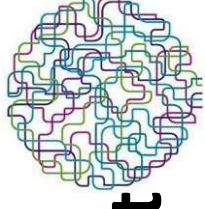
The lessons are taught by about 400 teachers who, by their competence, ensure the quality and relevance of training. Experts and professionals often contribute to these teachings. Our doctorates are based on 25 research structures: research units, research laboratories and units of common services in all areas presented by the faculty.

FSS (<http://www.fss.rnu.tn/index.php?item=24>)

US (<http://www.uss.rnu.tn>)

ICT Scope Departments:

- Computer Science and Telecommunications
- Instrumentation and Industrial Maintenance



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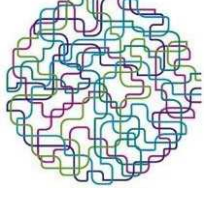
Description of the your research interest

Our research interests concern information retrieval, semantic Technologies, knowledge representation, social media, Machine learning, Big Data and IoT.

KeyWords: Information retrieval, semantic technology, Machine learning, big data and IoT

IoT, BigData, Machine Learning

Monitoring and assessment of reduced mobility in the elderly and accident victims using machine learning and wearable IoT.



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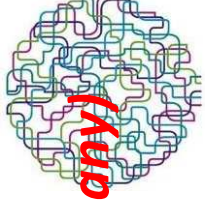
Reduced mobility is among the sad facts coming with age or resulting from road or professional accidents. As the ageing population is expected to grow especially in developed countries, the cost of healthcare installations either in pension houses or in rehabilitation centers is expected to be an increasing burden on health budgets. One solution to this problem is to provide a set of tools that enable the healthcare staff to remotely monitor and assess the mobility of patients and to predict the evolution of their health.

The main objective of the project is to design smart learning backend services and IoT applications to enable healthcare providers such tools based on accelerometer data collection and machine learning algorithms that can individually assess the eventual improvement of the overall mobility of the patient. This IoT based system will permit to reduce the number of visits to the medical centers and enable to establish a personalized monitoring of patient mobility at a lower cost.

The expected results from the project:

- Continuous mobility (accelerometer and gyrometer) data intelligent gateway service.
- Sophisticated mobility data annotation tools used by healthcare specialists.
- Supervised learning assessment service based on mobility big data.

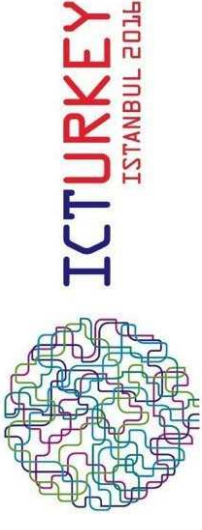
Consortium - profile of known partners *(if any)*



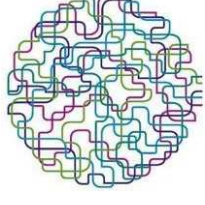
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No	Partner Name	Type	Country	Role in the Project
01		RTD		
02		SME		
03		IND		
04				
05				
06				
07				
08				

Consortium - required partners



No	Expertise	Type	Country	Role in the project
01	Ozyegin University	UNI	Turkey	Big Data and Machine Learning Expertise
02	Kingston University London Aktifbank Research&Development Center Division	UNI	UK	Expert on Big Data in medical field
03		R&D	Turkey	Investment in Machine Learning and Big Data
04	Marmara University	UNI	Turkey	Big Data and Machine Learning expertise
05	ETIYA Information Technologies	ENT	Turkey	Development and hosting of medical Web services
06	University of Passau	UNI	Germany	Annotating big data: Semantics and data integration
07				
08				



Noureddine Loukil
Faculty of Sciences of Sfax
Department of Computer Science and
Telecommunications
Tunisia
+216 21609717
noureddine.loukil@isimf.rnu.tn
