



Workshop on Informatics and their Applications to Healthcare **WIAH'2018**

Internet of Things and Bioinformatics

Doctoral School of Sciences and Technology And Faculty of Engineering
Laboratory of Informatics and their Applications
Laboratory of Telecommunications, Network and Microwaves
Lebanese University, Tripoli, Lebanon
October 15-18, 2018

Organizing Committee

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Registration

Free of charge but mandatory before:
October 5, 2018

For registration, kindly contact:
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Topics

Internet of Things
Bioinformatics

Sponsors



WIAH'2018 is the first academic workshop on Computer Science tools applied to Healthcare domain organized by the Laboratory of Informatics and their Applications (LIA) and Laboratory of Telecommunications, Network and Microwaves of the Doctoral School in Science and Technologies (DSST/EDST) at the Lebanese University (LU).

It will assemble students, academicians, researchers with quality speakers from different disciplines and institutes. The main goal of this event is to discover the opportunities of using two tracks, Internet of Things & Bioinformatics, in healthcare applications.

Program

Internet of Things: Prof. Nazim Agoulmine
Venue: Michel Sleiman Campus, Tripoli Mont Michel, Faculty of Engineering

Monday 15/10/2018, 14h-18h

- Introduction to IoT: vision, applications and general challenges
- Data Communication and Computing Technologies for IoT Things
- Distributed Frameworks for IoT (data sensing, data communication, data storing, data analytics, data visualisation, things actuation, apps programming)
- Security and Privacy issues in IoT (energy, commerce, industry, transportation, healthcare, ...)

Tuesday 16/10/2018, 14h-18h

- LoRa/LoRaWAN/SIGFOX IoT Networks: vision, architecture, protocols and applications
- 3GPP LTE-M, LTE-NB-IoT Networks: vision, architecture, protocols and applications
- Open IoT Labs initiatives: Thing Networks, European IoT Labs, FIT IoT Lab, Open Mobile IoT Labs, etc.
- Cloud IoT: convergence between IoT and Cloud Computing, Fog Computing, Mobile Edge Computing

Wednesday 17/10/2018, 14h-16h

- Research activities in IoT (scalability, rate, energy, data mining, data analytics, cost).
- Open discussion

Clinical Bioinformatics: Prof. Mohamed Abouelhoda
Venue: Azm Center, Conference Room

Thursday 18/10/2018, 8h-18h

- Introduction to Clinical Bioinformatics and Personalized Medicine
- Analysis of Next Generation Sequencing Data for Medical Applications- Part 1, 2
- Hands-on with real data and use cases