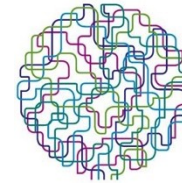


International Brokerage Event
Istanbul 30/11/2016



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***National Institute of Applied Sciences
and Technology***

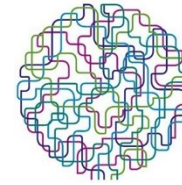
riadh robbana
riadh.robbana@gmail.com

This presentation is for

Workshop 1 Big Data

ICT-18-2016

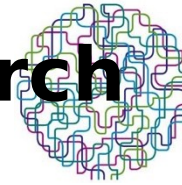
Description of the Organization



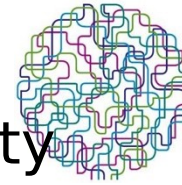
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- **Organization:** National Institute of Applied Science and Technology is an ICT institute attached to University of Carthage Tunis, Tunisia.
- I am involved in Software Engineering degree courses and project supervising.
- INSAT : (http://www.insat.rnu.tn/Fr/accueil_46_34)
- UCAR : (<http://www.ucar.rnu.tn/En/>),

Description of the your research interest



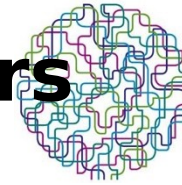
- My research team within (LIP2/FST) is working on formal methods for testing and verifying security problems and real-time protocols. Our activities target three challenges :
 - Protocol design and verification : We focus on some kind of protocols such as e-voting and e-passport protocols, formally analyze their security properties, and propose new protocols addressing some security flaws.
 - Real-time vérification: We use model checking approaches to formally verify and test invariant properties of real-time systems such as real-time schedulers and communication protocols.
 - Big-data: We are interested in Business Intelligence aspects such as machine learning, statistics and analysis as well as optimizing databases requests.



Project Idea title: Big Data and Security

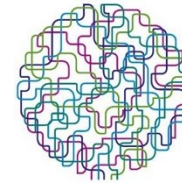
- Context
 - Appropriate analysis and data mining algorithms on Big Data with respect of Security
 - Real time data mining
 - Security
 - Internet of things
- Objectives
 - Design protocols and strategies to ensure security
 - Evaluation of security strategies
 - Define a rigorous framework to analyse such strategies and protocols using formal methods for verification and test
- Expected results
 - A tool for formally analysing security on Big Data.
 - Case studies

Consortium - required partners



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No	Expertise	Type	Country	Role in the project
01	Academic dealing with Big Data, Security and Formal verification	LIP2 Laboratory	Tunisia	Manage Innovation and Quality in security and formal verification
02	Expert on Big Data	Carthage University and Paris VII	Tunisia and France	Manage aspects related to Big Data
03	Company working on security	ST-Alliance	Tunisia and France	Manage aspects related to security
04	Expert on Expert on Data Base for Big Data	Grenoble University	France	Manage aspects related to Optimization on Data Base



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