INTERNATIONAL SCHOOL ON DATA SCIENCE & IOT
University of Catania, September 9 -13, 2019

PROGRAM

September 9th	
09:30 11:00	Machine learning algorithms, techniques & applications in IoT domains **Prof. A. Liotta**
11:00	**Coffee break**
11:30 13:00	Machine learning algorithms, techniques & applications in IoT domains **Prof. A. Liotta**
13:00	**Lunch**
14:00 15:30	Methods and Tools for Interoperable IoT systems **prof. R. Gravina**
15:30	**Coffee break**
16:00 17:30	Methods and Tools for Interoperable IoT systems **prof. R. Gravina**

September 10th	
09:30 11:00	UAVs, and UAV solutions **prof. Calafate**
11:00	**Coffee break**
11:30 13:00	UAVs, and UAV solutions **prof. Calafate**
13:00	**Lunch**
14:00 15:30	**Workshop on Data Science and IoT – Session I** 1) Ibrahim Arif and Nevena Ackovska – **IoT aided Smart Home Architecture for Anomaly Detection** 2) Annamaria Ficara, Giacomo Fiumara, Pasquale De Meo and Antonio Liotta – **Correlations among Game of Thieves and other centrality measures in large networks: preliminary results.**

	3) Barbara Attanasio, Alessandro Di Stefano, Aurelio La Corte and Marialisa Scatà – **A modeling approach based on Multiplexity and EGT for resource sharing in Fog/Cloud Computing** 4) Georgios Georgiadis, Andreas Komninos, Andreas Koskeris and John Garofalakis – **Improving Hydroponic Agriculture through IoT-enabled Collaborative Machine Learning**
15:30	**Coffee break**
16:00 17:00	**Workshop on Data Science and IoT – Session II** 1) Fabrizio Formosa and Michele Malgeri – **Optimization strategy in data transmission on Narrowband IoT with LWM2M** 2) Marco Vigo and Michele Malgeri – **Analysis of GPS power consumption in constrained-resources devices** 3) Muneer Bani Yassein – **An Energy-efficient Techniques for Constrained Application Protocol (CoAP): Challenges and Open Issues** 4) Qimeng Li, Raffaele Gravina and Giancarlo Fortino – **A Collaborative BSN-enabled Architecture for Multi-user Activity Recognition**

17:00
 17:30
	School Participants Research Activity Overview – Session I
	     1. Marco Grassia
	     2. Riolo Salvatore
	     3. Sutera Giuseppe

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September 11st

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09:30 11:00	**9**:30 Big Data & IoT in Green Energy Production **Simone Massaro – Bax Energy** 10:15 From IoT to Business Processes - Behind the Scenes with Google Cloud Platform **Alessio Giavare - Noovle S.r.l**
11:00	**Coffee break**
11:30 13:00	**11:30** Real time camera analytics **Francesco Boscarino – Bizmate S.r.l** **12:15** Anatomy of an Industrial IoT Architecture **Mark Loria – SeeYourBox**
13:00	**Lunch**
14:00 15:30	IoT scaled to the limit: Nanotechnologies applied to Energy Harvesting and Wireless Communications **prof. Abadal**
15:30	**Coffee break**

16:00 17:30	IoT scaled to the limit: Nanotechnologies applied to Energy Harvesting and Wireless Communications **prof. Abadal**

September 12nd

09:30 11:00	Social media analysis in scale **prof. R. Farahbakhsh**
11:00	**Coffee break**
11:30 13:00	Social media analysis in scale **prof. R. Farahbakhsh**
13:00	**Lunch**
14:00 15:30	**School Participants Research Activity Overview – Session II** 1) Ali Muhammad Majid 2) Cavallaro Lucia 3) Ciatto Giovanni 4) Ferrara Enrico 5) D'Urso Fabio
15:30	**Coffee break**
16:00 17:30	**School Participants Research Activity Overview – Session III** 1) Previti Marialaura 2) Santoro Federico 3) Ungureanu Alexandru-Cristine 4) Valastro Gianluca Camillo 5) Zang Weilin
20:30	**Social Dinner** **Meeting point Piazza Duomo by the "Liotro" (the elephant statue).**

September 13th

09:30 11:00	Complex network **Prof. G. Mangioni**
11:00	**Coffee break**

11:30 13:00	Best paper award & Closing