PhD in Information Technology and Electrical Engineering
Università degli Studi di Napoli Federico II

PhD Student: Giovanni Stanco

Cycle: XXXV

Training and Research Activities Report

Year: First

Giovanni Stanco

Tutor: prof. Giorgio Ventre

Co-Tutor:

Date: October 21, 2020

1. Information:

- ➤ **PhD student:**   **Giovanni Stanco**
- ➤ **DR number:**   **993896**
- ➤ **Date of birth:**   **11/09/1992**
- ➤ **Master Science degree: Telecommunications Engineering**
- ➤ **University:**   **University of Naples 'Federico II'**
- ➤ **Doctoral Cycle:**   **XXXV**
- ➤ **Scholarship type:**   **Rislab SRL**
- ➤ **Tutor:**   **Prof. Giorgio Ventre**
- ➤ **Co-tutor:**

2. Study and training activities:

Activity	Type[1]	Hours	Credits	Dates	Organizer	Certificate[2]
Intelligenza artificiale ed etica	Ad hoc course	8	1.6	6/12/19	Prof. Prevete	Yes
Introduction to Cern and wakefield measurement at Clear	Seminar	2	0.2	18/11/19	Prof. Arpaia, ing. Gilardi	Yes
Deep learning onramp	Seminar	2	0.4	21/11/19	Prof. Sansone, ing. Marrone	Yes
Marked point processes for object detection	Seminar	1	0.2	2/12/19	Prof. Zerubia	Yes
Cybersecurity and fuizzing for robots	Seminar	1	0.2	13/1/20	Dr.Iannillo	Yes
Scientific programming and visualization with Python	Ad hoc course		2	28/2/20	Prof. Botta	Yes
Computational Biology	Seminar	1	0.2	9/4/2020	Prof. Ceccarelli	Yes
Elettromagnetismo e salute	Seminar	1	0.2	9/4/20	Prof. Massa	No
How to get published with IEEE	Seminar	2	0.4	20/4/2020	Dr. Lukacs	Yes
Innovation management, entrepreneurship and intellectual property	Ad hoc course		5	19/6/2020	Prof. Rippa	Yes
Protocolli per reti mobili	MSc Course		6	24/6/2020	Prof. Avallone	Yes
Large scale training of deep neural networks	Seminar	2	0.4	6/5/2020	Dr. Frameni, prof. Sansone	Yes

La programmazione europea e la ricerca	Seminar	2	0.4	13/5/20	Prof. Ammirati	No
Planning 5G under EMF constraints	Seminar	2	0.4	18/5/20	Prof. Cacciapuoti	No
SPS webinar series: SPACE	Seminar	2	0.4	19/5/2020	Dr. Giryes	No
CVPL: Bias from the wild	Seminar	2	0.4	26/5/20	Proff. Cristianini, Frontoni	Yes
CVPL: Adversial attacks on image classifiers	Seminar	2	0.4	10/6/20	Proff. Cavallaro, Frontoni	Yes
CVPL: Learning representations and geometry from unlabelled videos	Seminar	2	0.4	25/6/20	Proff. Vevaldi	Yes
Machine Learning	Ad hoc course		4	31/7/20	Proff. Sansone, Corazza	Yes
Network Security	MSc Course		6	28/7/20	Prof. Romano	Yes
How to publish OpenAccess with IEEE	Seminar	1	0.2	23/9/20		Yes
Software security per sistemi industriali	MSc course		3	25/9/20	Proff. Cotroneo, Natella	Yes
Strategic orientation for STEM Research and Writing	Ad hoc course	18	3.6		Dr. Fraser	No

1) Courses, Seminar, Doctoral School, Research, Tutorship
2) Choose: Y or N

2.1. Study and training activities - credits earned

	Courses	Seminars	Research	Tutorship	Total
Bimonth 1	1.60	1	7.40	0	10
Bimonth 2	0	0.20	9.80	0	10
Bimonth 3	2	0.80	7.20	0	10
Bimonth 4	11	2.80	1.20	0	15
Bimonth 5	10	0	1	0	11
Bimonth 6	6.60	0.20	2.20	0	9
Total	31.2	5	28.8	0	65
Expected	30 - 70	10 - 30	80 - 140	0 – 4.8	

3. Research activity:

Study on literature about the Internet of Things, security in IoT, short range (BLE, Zigbee, etc.) and long range (LoRaWAN, Sigfox, NB-IoT, 5G) communication technologies, possible application scenarios.

Use of Pycom Fipy devices to make a testbed to start tests on Sigfox, NB-IoT and LoRaWAN.

Preparation of the conference paper 'DewROS: a platform for Informed Dew Robotics in ROS', presented at the IEEE Mobile Cloud 2020 conference; preparation of a journal paper about DewROS, not submitted yet; preparation of a survey about security in IoT wireless communications.

4. Research products:

Authors	Giovanni Stanco, Alessio Botta, Giorgio Ventre
Title	DewROS: a platform for informed Dew Robotics in ROS
Conference	2020 8th IEEE International Conference on Mobile Cloud Computing, Services, and Engineering (Mobile Cloud)

5. Conferences and seminars attended

2020 8th IEEE International Conference on Mobile Cloud Computing, Services, and Engineering (Mobile Cloud), on line conference. I presented the paper 'DewROS: a platform for informed Dew Robotics in ROS'

6. Activity abroad:

7. Tutorship