![europass logo] Curriculum vitae

PERSONAL INFORMATION **Flavio Morselli**

WORK EXPERIENCE

2017 – 2018 Researcher

Università degli Studi di FERRARA - Department of ENGINEERING

Main Project: "Tracking di oggetti non collaborativi", Nov. 2017 - Oct. 2018

– Non-collaborative object localization via sensor-radar networks with dedicated signals.
– Experimental characterization of clutter backscatter echoes in sensor-radar networks via ultra-wideband impulse radios (X4 UWB radar, Xethru by Novelda).
– Development of clutter mitigation techniques.

Other activities:

– Research on multidimensional stochastic sampling applied to wireless sensor networks analysis and design.
– Education support for course projects.

PUBLICATIONS

F. Morselli, F. Zabini, and A. Conti, "Environmental monitoring via vehicular crowdsensing," in *Proc. IEEE 29th Annu. Int. Symp. Personal, Indoor, and Mobile Radio Communications (PIMRC)*, 2018

F. Morselli, S. Bartoletti, S. Mazuelas, M. Z. Win, and A. Conti, "Crowd-centric counting via unsupervised learning," in *Proc. IEEE Workshop on Advances in Network Localization and Navigation (ANLN), Int. Conf. Commun.*, 2019

EDUCATION AND TRAINING

2018–Now Corso di Dottorato di Ricerca in Scienza dell'Ingegneria, curriculum Ingegneria dell'Informazione   EQF level 8

Università degli Studi di FERRARA - Department of ENGINEERING

3rd level degree - Research Doctorate Degree/Ph.D.

Competences: RADAR, Passive Localization, Tracking, Wireless Sensor Networks, Machine Learning, Statistical Inference.

2015–2017 Ingegneria Elettronica e delle Telecomunicazioni, Classe LM-29 (summa cum laude)   EQF level 7

Università degli Studi di FERRARA - Department of ENGINEERING

2nd level degree - Master's Degree obtained with "encomio"

Competences: Statistical Signal Processing, Information Theory, Coding Theory, Digital Communications, Wireless Communications & Networks, Peer-to-Peer Communications, Optimization Methods, Propagation & Antennas, Electromagnetic Compatibility, Optical Devices.

Thesis: "MIMO Communication Systems on FPGA: ~~Design and Implementation~~. ~~Compe~~ tences acquired in MIMO systems with spatial diver~~sity~~ techniques, FPGA prototyping.

2012–2015   **Ingegneria Elettronica e Informatica, Classe L-8 (summa cum laude)**   EQF level 6

Università degli Studi di FERRARA - Department of ENGINEERING

1st level degree - Degree/Bachelor

Competences: Mathematical analysis, Geometry and linear algebra, Discrete mathematics, Physics, Analog & Digital electronics, Telecommunication Systems, Computer Networks.

Thesis: "Tecniche di localizzazione basate su segnali LTE di opportunità". Competences acquired in statistical inference, localization with signals of opportunity, clutter mitigation techniques, and radar networks.

2007–2012   **Pre-university studies**   EQF level 5

Secondary school diploma: INDUSTRIAL TECHNICAL CERTIFICATE

School-leaving examination taken in (year): 2012

Grade: 100/100 with "lode"

Italian secondary school diploma

PERSONAL SKILLS

Mother tongue   Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B1	B1	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference (CEF) level

Digital competence
Operating systems: Good
Programming languages: Good
Word processing: Good
Electronic spreadsheet : Good
Data base administrators: Fair
Data transmission networks: Good
Web-site creation: Fair
Multimedia: Good
Programming languages known: Java, C, Python, LaTeX, Matlab, Mathematica, PHP, SQL

Communication skills   – Teamwork: joined for one year the research group in "Wireless Communication and Localization Networks Lab" (Dipartimento di Ingegneria-Università degli Studi di Ferrara) during the project "Tracking di oggetti non collaborativi".

Computer skills
– good knowledge of the programming languages: C, Python
– fair knowledge of the programming language: Java
– basic knowledge of the programming language: PHP, SQL
– extensive experience with numerical computing software Matlab and its programming language (both procedural and object-oriented programming)
– extensive experience with LaTeX markup language
– extensive experience with Linux/Unix OS programming
– experience with Windows OS programming
– experience with Microsoft Office (Excel package in particular)

Driving licence   B

ADDITIONAL INFORMATION

Privacy   Il sottoscritto acconsente, ai sensi del D.Lgs. 30/06/2003 n.196, al trattamento dei propri dati personali.

Ferrara, 31/07/2019